massDOT
Massachusetts Department of Transportation
Highway Division

Accelerated Bridge Program

DECEMBER 2012 UPDATE

Executive Summary

This November the Accelerated Bridge Program (ABP) received a new honor – *ENR New York's Best Overall Project of 2012*. The Engineering News Record (ENR) covers New York, New Jersey and New England, with the *93Fast14 Rapid Bridge Replacement Project* being chosen from 104 entries submitted in the northeast region. The winning project must demonstrate the use of innovation and creativity, and applicants must discuss how they overcame challenges to get the job done. The *93Fast14* met these criteria, with the project judges calling the project's accelerated work schedule "trendsetting", noting the "incredible coordination" exhibited by the entire team. In addition to being named Best Overall Project, the project also received Best Transportation Project and a Safety Merit Award. These three awards once again demonstrate that MassDOT is fulfilling its mission to be a 'transportation organization focused on customer service and safety.' The ABP continues to strive to reduce construction durations while maintaining safety and mobility.

As reported in September, the 2012 construction season has been particularly active. Two of the five Mega-Projects are now under construction, with the remaining three projects currently advancing through the procurement phase. Work continues on the Kenneth Burns Memorial Bridge project, which began active construction in August, while more recently MassDOT broke ground in Quincy-Weymouth, initiating construction of the Fore River Bridge. This quarter there were a total of 70 projects under construction, of which 16 were declared substantially complete. This brings the total for calendar year 2012 to 34 and the total for the program to 115. In November 2012 another major milestone was reached when the expenditures associated with the ABP exceeded the $1 billion mark. Over $700 million of this has been spent on direct construction costs, resulting in a 20% reduction in the number of structurally deficient bridges.

Ground Breaking Ceremony for the new Fore River Bridge between Quincy and Weymouth held November 9, 2012

In 2011 MassDOT had explored the use of the Construction Manager/General Contractor (CMGC) procurement method for the Longfellow Bridge Project. Ultimately this procurement method was not selected; instead MassDOT adopted a modified design-build procurement method. Unlike traditional design-build, the modified process allows for a series of confidential one-on-one meetings with the shortlisted design-build teams. These meetings provide the bidders with an opportunity to present their Alternative Technical Concepts (ATCs) and receive feedback from MassDOT. This method encourages the design-build teams to think creatively and to propose innovative concepts, but provides them with a level of reassurance that MassDOT will accept their proposals and adopt their ideas. The Longfellow one-on-one meetings recently concluded and the feedback from those involved has been positive. Consequently, MassDOT is already identifying other projects that could benefit from this procurement method.

This quarter the Accelerated Bridge Program staff has been finalizing the 2013 Annual Bridge Repair Plan. It is currently anticipated that 17 of the remaining 26 projects will be advertised for construction by the end of September 2013, with another 27 being declared substantially complete. That will leave only 9 projects, less than 5% of the program total, to be advertised, and 60 projects, or 30%, to be completed in the remaining three years of the program. To date 177 projects with a combined construction budget of $2.1B have been advertised.

Ensuring access and opportunity continues to be a priority for both MassDOT and the ABP. Of the $1.28 billion awarded in design and construction contracts, $172 million (or 13.4%) was committed to businesses owned by women or minorities. In construction, $84.3 million (7.3%) was committed to firms owned by women and $60.7 million (5.2%) was committed to minority owned firms. In design $13.5 million (11.2%) was awarded to women owned business while $13.9 million (11%) was secured by minority owned businesses. The ABP investment has also created and sustained thousands of jobs across the Commonwealth. This quarter the number of direct construction jobs associated with the program rose to 18,859, which brings the estimated total number of jobs created or sustained to 65,000.

The 2011 construction season firmly established MassDOT as a leader in innovation and brought much acclaim for both the program and its projects. This past year proved no different. The 2012 season was launched in April with the River Street 'Heavy lift' that once again allowed the ABP to replace a bridge in just one weekend. Throughout the season MassDOT continued, where possible, to use precast and prefabricated bridge elements to minimize impacts for the customers that we serve. At these locations every effort was made to shorten the duration of work in the roadway and technology was used to complete projects quickly and efficiently. While 2011 was a season of firsts for MassDOT, in 2012 the ABP continued to build upon that momentum, expanding the use of accelerated bridge construction methods. As more projects are completed and more staff are exposed to these new techniques, MassDOT will continue to evaluate the lessons learned and strive to identify additional opportunities to save both time and money. The remaining years of the program will bring plenty of challenges, especially with the major projects under construction, and the ABP will continue to foster partnerships with both project stakeholders and contractors to address those challenges together. Projects such as the *93Fast14* have demonstrated that it is only through collaboration, with shared goals and values that projects are delivered successfully.

Between Dover and Needham, the Willow Street Bridge has been replaced using a precast arch, faced with stones from the original bridge to maintain its historic character

Victoria Sheehan
Accelerated Bridge Program

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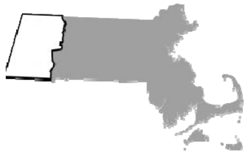
Program Goals & Objectives

- **Improve the Condition of the Commonwealth's Bridges**
  - Reduce the number of Structurally Deficient Bridges.
  - Improve the overall Bridge Health Index of Massachusetts Bridges.
- **Stimulate Economic Development and Job Creation**
  - The Accelerated Bridge Program will create thousands of jobs across the Commonwealth.
- **Save Money By Completing Projects Sooner**
  - Repair bridges now before further costly deterioration can occur.
  - Hedge against construction cost inflation.
- **Complete Projects Efficiently and Innovatively**
  - Complete projects on-time and on-budget.
  - Complete projects with minimum disruption to people and commerce.
  - Use Design-Build and other innovative contracting techniques.
  - Focus on preservation and other strategies to improve the long-term condition of all Massachusetts bridges.
- **Access and Opportunity**
  - To ensure access and opportunity on the part of women and minority individuals and businesses by establishing specific goals for each aspect of the program.
- **Transparency and Accountability**
  - Provide frequent and detailed reports to the public on the progress of the ABP.
  - Develop overall project controls to ensure adherence to project schedules and budgets.
  - Measure agency performance in streamlining design and construction schedules.

2012 Construction Season Wrap-Up

Summer 2012 proved to be yet another successful construction season for the Accelerated Bridge Program. Over the past twelve months 43 projects were completed, bringing the total for the program to 115 of the 203 total projects, or 57%. Over the past four years the ABP has invested almost $700 million in the construction of Massachusetts bridges, creating or sustaining over 18,850 direct construction jobs. The result has been a 20% reduction in the number of Commonwealth bridges deemed structurally deficient. MassDOT has also continued to use Accelerated Bridge Construction (ABC) and prefabricated or precast elements, to shorten construction durations and minimize impacts for both roadway users and communities. The program has also brought infrastructure improvements to every corner of the State, from Conway to Cambridge, and Fitchburg to Fall River.

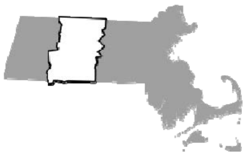
District 1



Three notable projects were completed this year in District 1. In Worthington the bridge carrying Route 112 over the Kearney Brook was replaced using precast New England Extreme Tee (NEXT) sections and precast concrete abutments. Similarly in Charlemont, the bridge carrying Mountain Road over Hartwell Brook was replaced using NEXT beams and precast substructure elements. Both these projects were completed in just one construction season, with the Worthington project completing 45 days ahead of schedule. Lastly in Conway, the structure carrying North Poland Road over the Poland Brook was replaced using precast pile caps and abutments, with recycled inverset units. Once again this project was completed in one construction season with less than 90 days of roadway user impact.

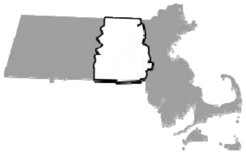
Erection of precast substructure elements in Conway

District 2



This season, Phase II of the Brimfield Route 10 (Wales Road) over Mill Brook project was completed. Initiated in 2011, this was the first project in Massachusetts to utilize the NEXT beam section type. Other accomplishments include the completion of the Southwick Route 202/Route 10 bridge replacement over the Johnson Brook. This project was completed four months ahead of schedule using a precast arch, precast wing walls and precast abutments. In 2012 work also began on the Davitt Memorial Bridge in Chicopee. This bridge provides the only downtown crossing of the Chicopee River and canal; consequently throughout design and construction the community has asked MassDOT to pursue methods of shortening the construction duration. Originally scheduled to complete in December 2013, this project is already trending early, however, MassDOT is working with the contractor to determine whether the completion date can be accelerated even further. It is hoped that this project can be completed in summer 2013.

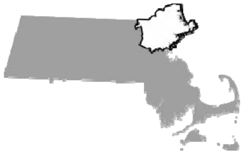
District 3



Construction of the first of the five Mega-Projects began this year in District 3 with the notice-to-proceed being issued on May 18, 2012 for the Ken Burns Memorial Bridge carrying Route 9 over Lake Quinsigamond between Shrewsbury and Worcester. Field work began in August and Phase I is well underway. The temporary access road on the South side of the bridge has been completed, utilities have been relocated and the cofferdam is in place so that pile driving for Pier 4 can begin.

In October the Westminster, Route 2 over Route 140 bridge project was finished almost 20 months ahead of schedule due to a Value Engineering Cost Proposal (VECP) submitted by the contractor. Other accomplishments in this district include the completion of the East Brookfield, Shore Road over East Brookfield River Bridge replacement, the completion of the Ashland Route 135 project, and the completion of the Uxbridge, Route 122 over the Blackstone River project, all finished ahead of schedule utilizing precast elements.

District 4



Summer 2011 was a particularly challenging summer for the staff in District 4, but they rose to the occasion overseeing and coordinating the successful construction of the award winning *93Fast14* project in Medford. This year has brought a quieter construction season, however, the District 4 staff has been actively engaged in the procurement of the Whittier Bridge replacement and widening of I-95 in Amesbury, Salisbury and Newburyport. The District has been assisting the Design-Build staff in preparing for this the fourth of the five Mega-Projects scheduled to enter construction. In 2012 several ABP projects were initiated in District 4, including the rehabilitation of the historic Rocks Village Bridge between Haverhill and West Newbury. This project is utilizing a Fiber Reinforced Polymer (FRP) deck to increase the load carrying capacity of the bridge, while maintaining the historic character of the structure. Spans 1 and 2 were completed this fall and work will continue in 2013. Other successes include the completion of the bridge carrying the Lowell Connector over Plain Street nine months ahead of schedule.

Rocks Village Bridge rehabilitation underway

District 5

The 2012 construction season began with the final paving and striping of the bridge carrying Summer Street over the Taunton River between Bridgewater and Middleborough. This project utilized the New England Bulb Tee (NEBT) section, precast abutments and precast wingwalls. As this NEBT project was completing another was starting, with the replacement of the bridge carrying Route 6 and Route 28 over the Cohasset Narrows between Bourne and Wareham. However, it was two projects in Taunton that attracted the attention of the attendees of the *Every Day Counts Regional Peer-to-Peer Exchange on Prefabricated Bridge Elements and Systems (PBES)*. As part of the event participants were taken on a tour to observe construction of the bridge and adjacent dam, where Bay Street crosses the Mill River, as well as the bridge carrying Holloway Street over Route 140. Both projects utilized prefabricated bridge units, similar to the *93Fast14*, however, the PBUs utilized at Bay Street were cast on-site by the contractor, rather than being constructed by an off-site fabricator. The Holloway Street project completed in September, 30 days ahead of schedule, and the Bay Street project is currently scheduled to complete in late December, 90 days early.

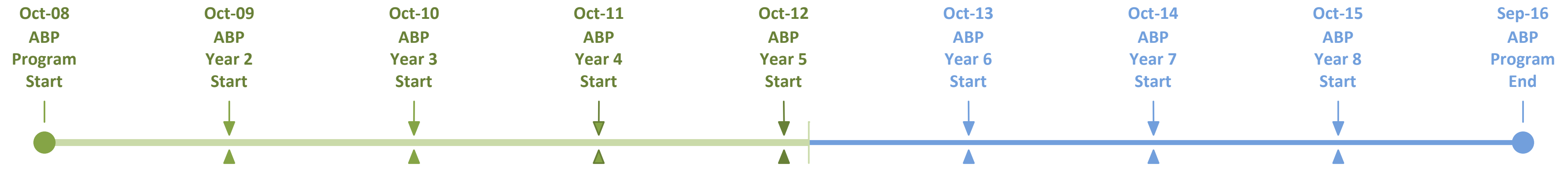
Bridge Engineers from throughout the northeast observe construction of the Bay Street Bridge in Taunton as part of FHWA's Northeast Regional Prefabricated Bridge Elements and Systems (PBES) Peer Exchange

District 6

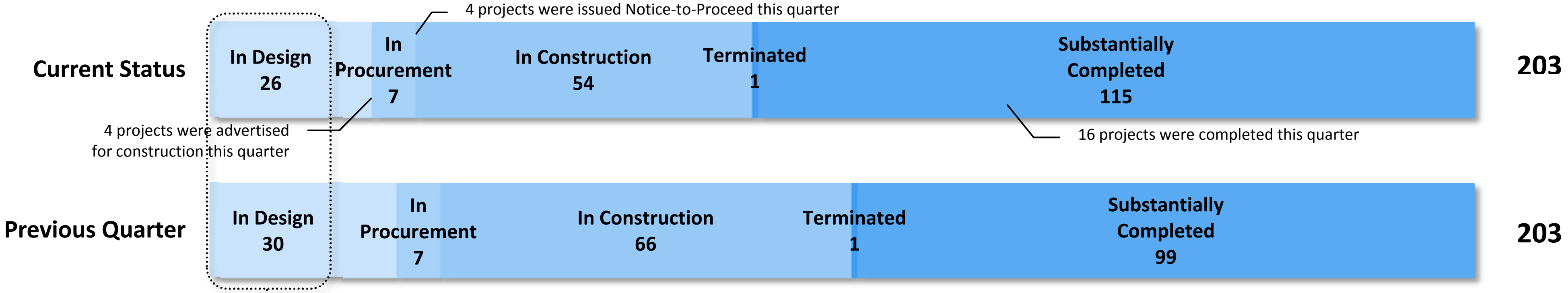
Another notable project completed in 2012 was the River Street bridge replacement in Hyde Park. This project brought further acclaim for the ABP as it attracted the attention of not just the construction industry, but also the media, becoming a front-page story in the New York Times. This was the third Self-Propelled Modular Transporter (SPMT) 'Heavy lift' project for the program, but the first where a bridge carrying traffic over the MBTA and CSX railroad was replaced. The bridge move was completed in mid-April and kicked-off the ABP 2012 construction season. More recently, in early November, MassDOT was pleased to host the ground breaking for the Fore River Bridge Project. This $244 million bridge replacement project is the second of the ABP's Mega-Projects to enter construction and will replace the temporary bridge between Quincy and Weymouth that was constructed in 2002. With Fore River underway and the third Mega-Project, the Longfellow Bridge rehabilitation currently in procurement, the District 6 staff has continued to support the Design-Build team as they prepare for the challenges of the construction seasons ahead.

Program Schedule Status

Program Timeline



Projects by Phase

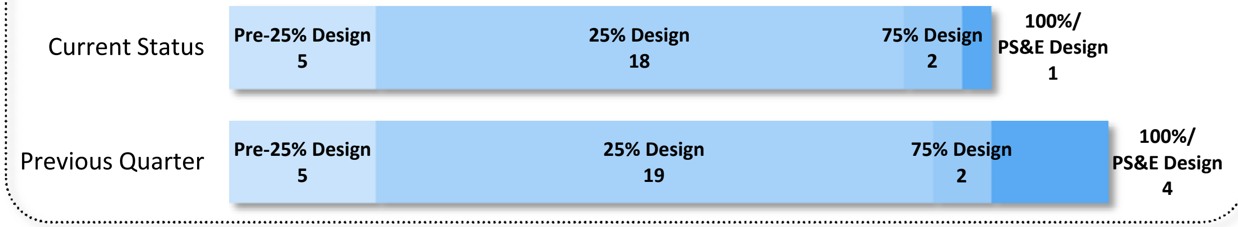


4 projects were issued Notice-to-Proceed this quarter

4 projects were advertised for construction this quarter

16 projects were completed this quarter

Project 'In Design' by Design Stage



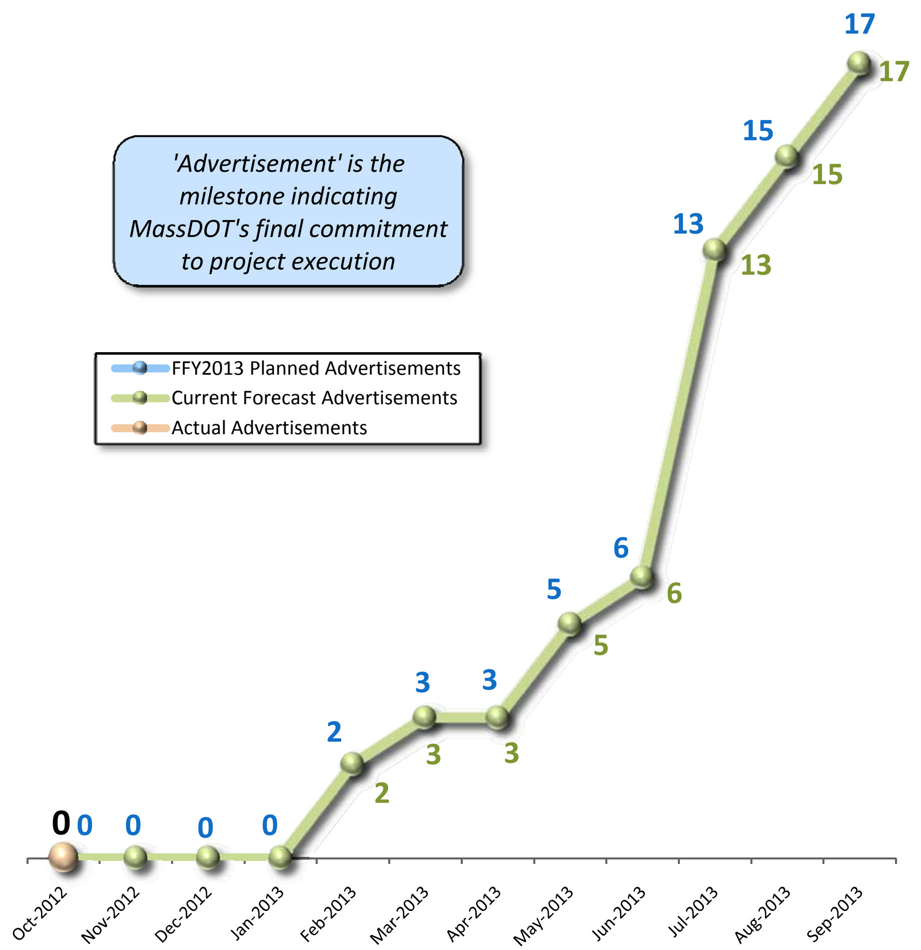
*See “Project List Changes” for detailed listing of projects added and removed from the Program.

Program Schedule Status

FFY-2013 Advertisements

FFY2013 Plan vs Current Forecast

(as of November 1, 2012)

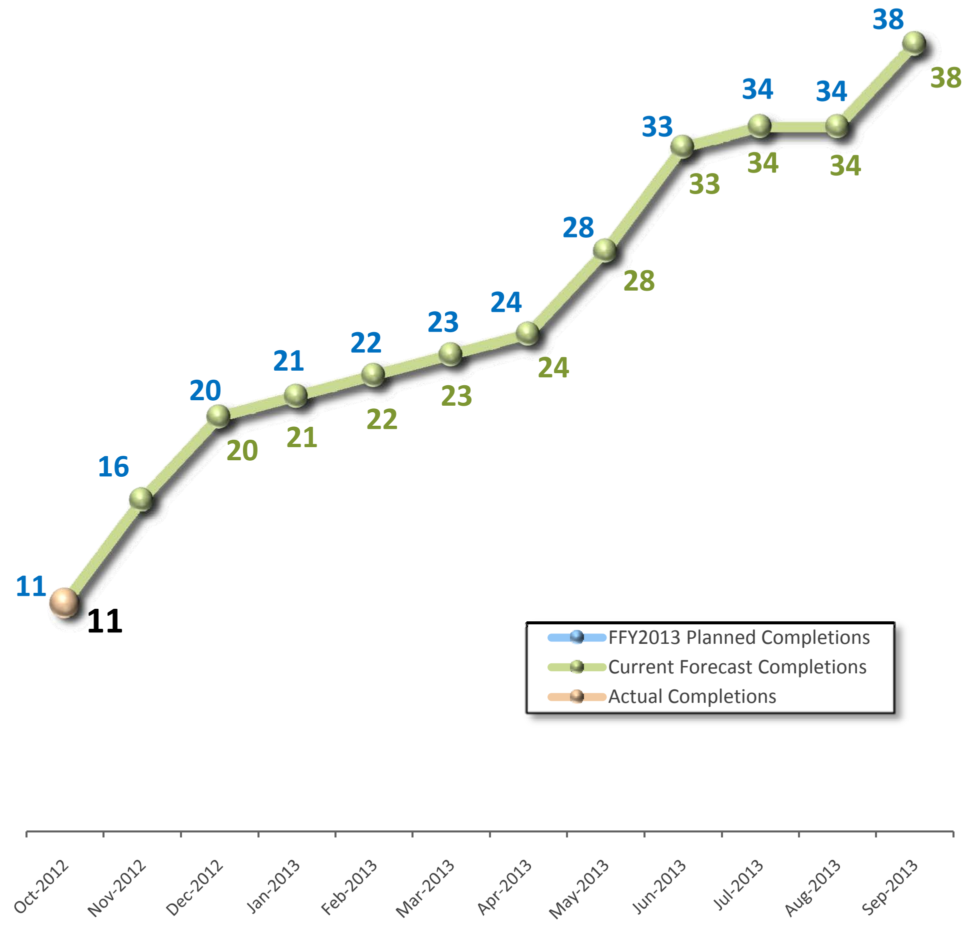


'Advertisement' is the milestone indicating MassDOT's final commitment to project execution

FFY-2013 Completions

FFY2013 Plan vs Current Forecast

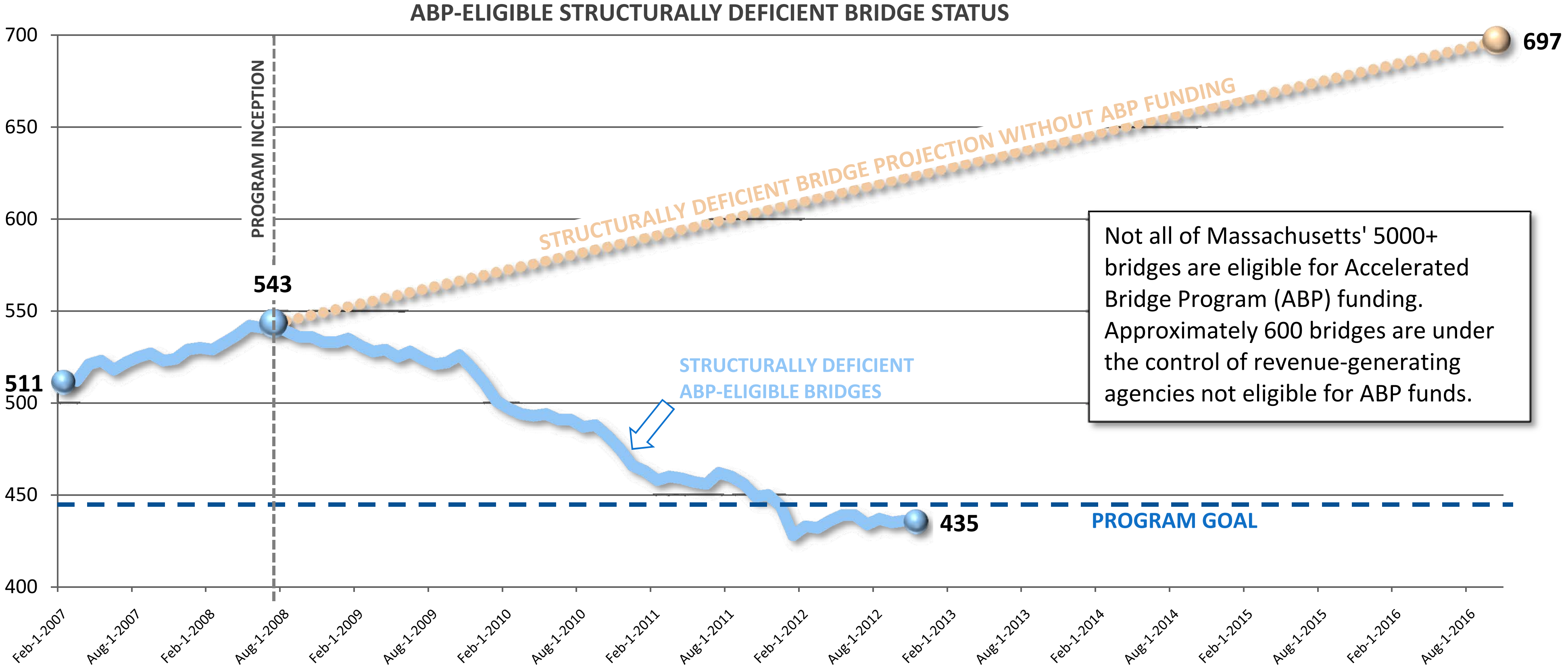
(as of November 1, 2012)



Bridge Condition Status

A structurally deficient bridge is one for which the deck (riding surface), the superstructure (supports immediately beneath the riding surface), or the substructure (foundation and supporting posts and piers) are rated in condition 4 or less on a scale of 1-10; a bridge that has experienced deterioration significant enough to potentially reduce its load-carrying capacity. Structural deficiency does not necessarily imply that a bridge is unsafe.

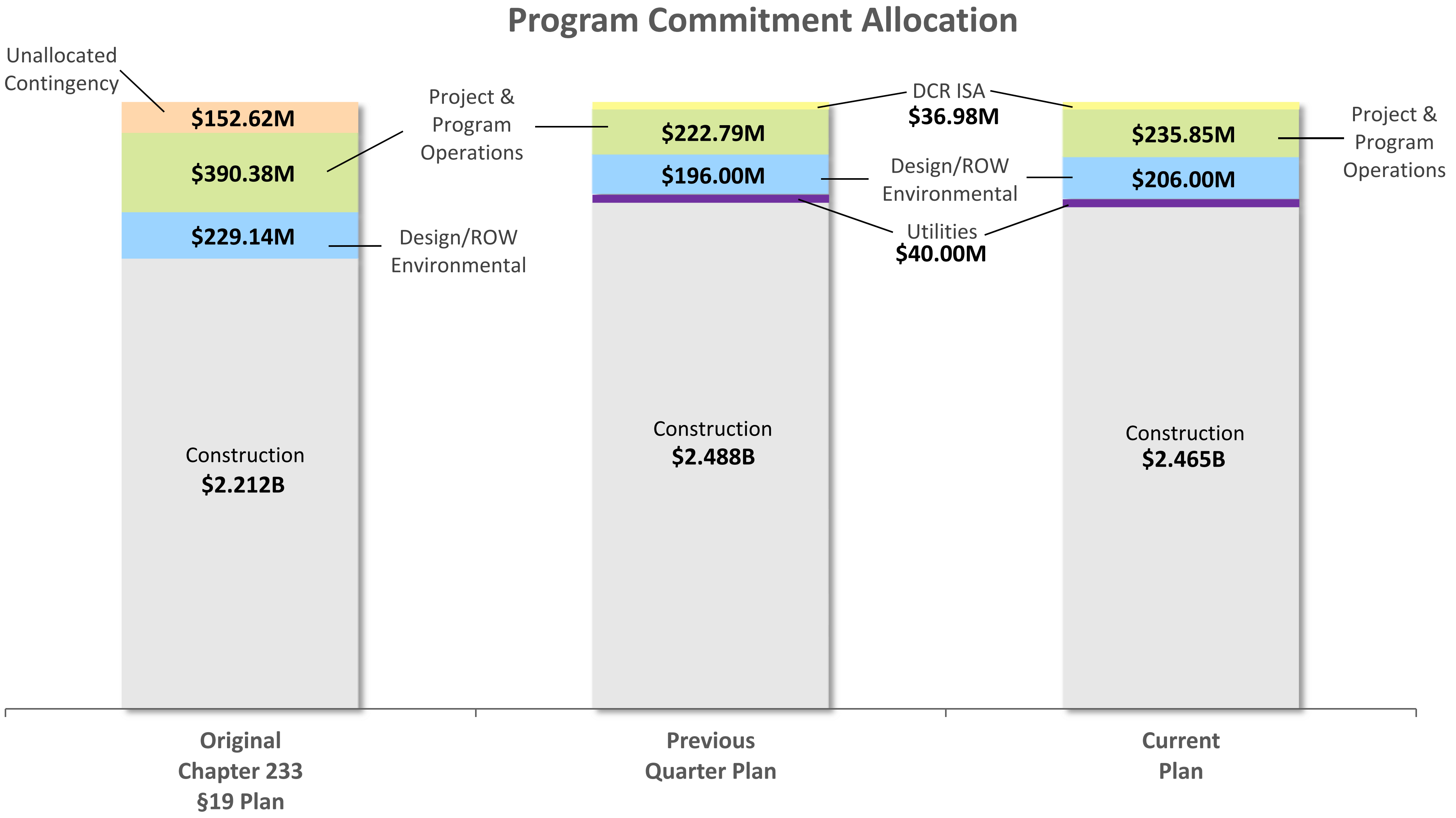
As of November 1, 2012, there were a total of 469 structurally deficient bridges in Massachusetts. The 435 structurally deficient bridges indicated in the chart below represents those that the former Massachusetts Highway Department (MHD) and Department of Conservation and Recreation (DCR) oversaw prior to the formation of the Massachusetts Department of Transportation (MassDOT). The delta of 34 structurally deficient bridges is due to the ABP Program being prohibited from performing work on former Massachusetts Turnpike Authority, Massachusetts Bay Transportation Authority, and Massachusetts Port Authority structures.



Not all of Massachusetts' 5000+ bridges are eligible for Accelerated Bridge Program (ABP) funding. Approximately 600 bridges are under the control of revenue-generating agencies not eligible for ABP funds.

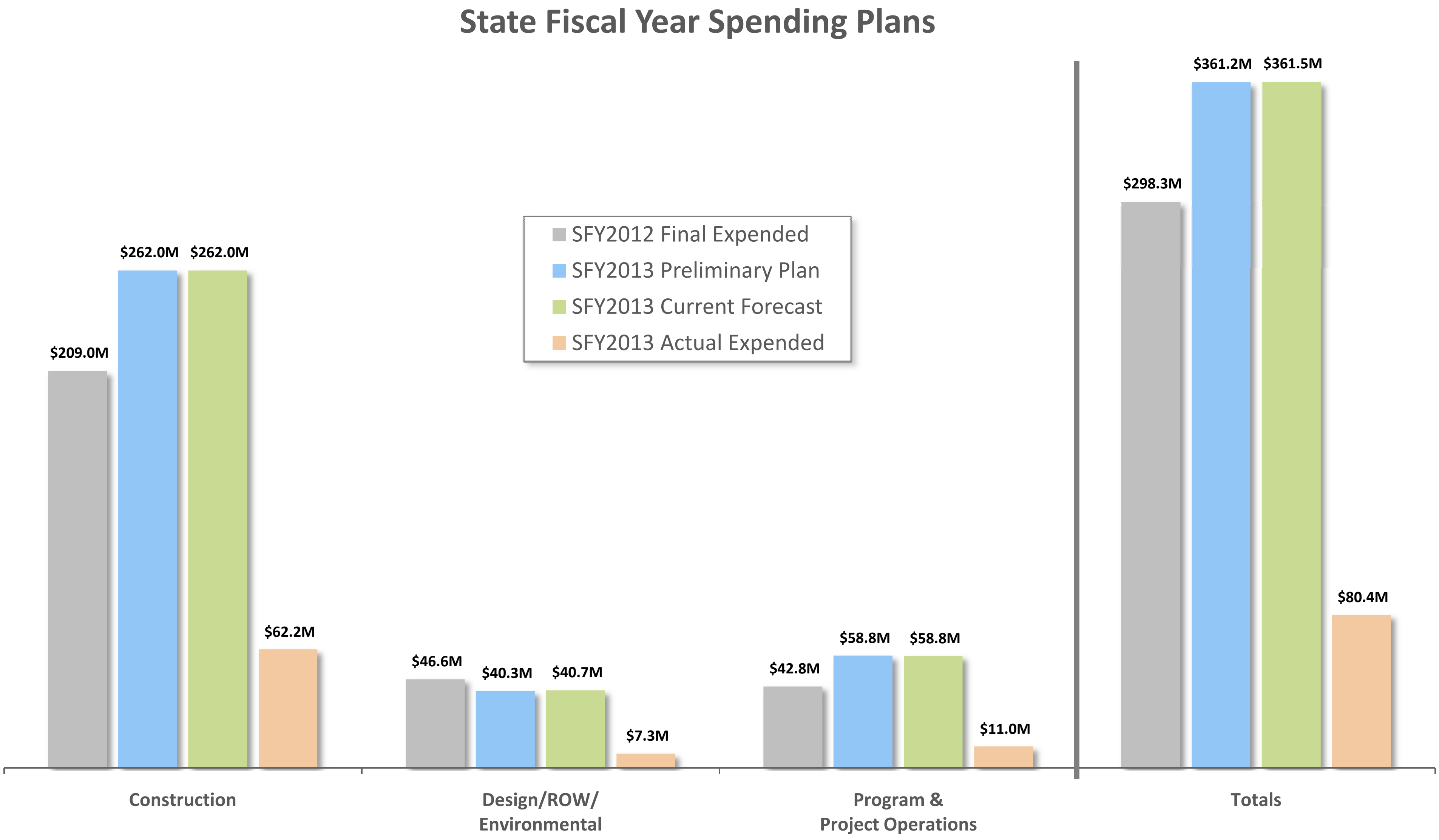
Data represented in this report is through at least November 1, 2012 unless otherwise indicated

Program Budget Status



Note: This quarter, $13.06M has been reallocated from the ‘Construction’ cost center to the ‘Project & Program Operations’ cost center to support the shift of the Mega-Projects later in the Program Schedule and to support additional IT initiatives. An additional $10M has been reallocated from the ‘Construction’ cost center to the ‘Design/ROW/Environmental’ cost center to bolster the available funds for 'contingency' project design and construction phase design services.

Program Expenditures Status



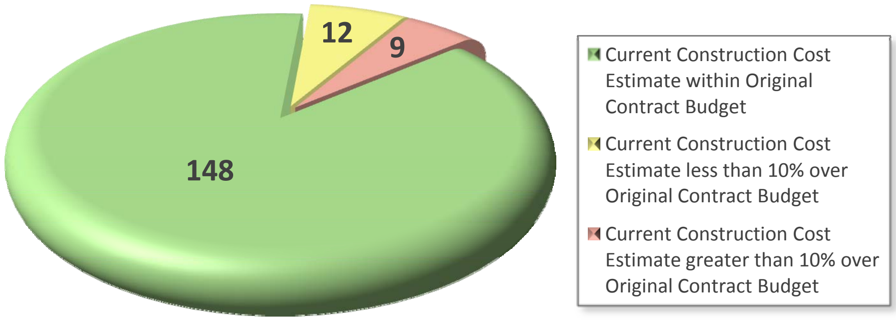
Construction Cost & Schedule Performance

Performance measurement is a key initiative within MassDOT and the Accelerated Bridge Program. Performance measurement is the ongoing monitoring and reporting of program accomplishments, particularly progress towards pre-established goals. Performance measures may address: the type or level of program activities conducted such as in M/W/DBE participation initiatives; the direct products and services delivered by a program such as reduction of structurally deficient bridges; and/or the results of those products and services such as reduced cost to the taxpayers, increased throughput of people and commerce, shorter commuting time or increased bike and pedestrian access.

The ABP currently tracks two scorecards relating to on-time/on-budget performance. Below are graphics depicting the ***Construction Phase Performance Scorecard***, which is the traditional method used by the former Massachusetts Highway Department and currently MassDOT in reporting agency-wide on-time/on-budget performance statistics. This method concentrates on the construction phase of a project, as that is the period with the most direct impact to the public. This scorecard uses the construction budget (funds encumbered) and contractual completion established at time of construction contract award as the baseline of measurement. The current construction cost estimate and current completion forecast are then compared to the baseline information to determine the on-time/on-budget performance trend. The project sample includes all 169 projects that have been awarded construction contracts to date, 115 of these have been declared complete.

Construction Contract Cost Performance Indicator

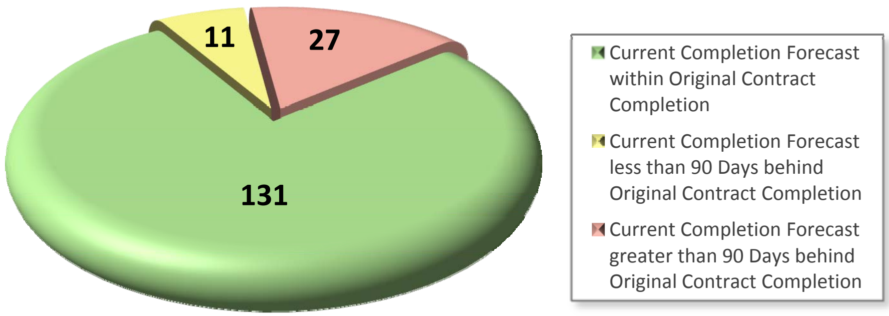
(Current Construction Cost Estimate vs Original Contract Encumbrance)



On-Budget = 87.6%

Construction Contract Schedule Performance Indicator

(Current Construction Completion vs Original Contract Completion)



On-Time = 77.5%

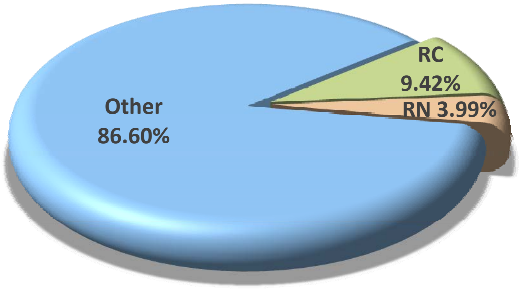
Access and Opportunity Status

Through the period ending September 30, 2012, the M/W/DBE participation on Accelerated Bridge Program contracts was 13.4%. This is slightly below the overall 14% access and opportunity business participation goal for the Accelerated Bridge Program. As MassDOT moves to the final stages of the Program, with the Mega-Projects coming up and anticipated federal participation, MassDOT may encounter challenges in attaining the overall goal. The major issue relates to federal DBE regulations that require MassDOT to set Disadvantaged Business Enterprises (DBE) contract/project goals only when necessary to meet the DBE overall goal. MassDOT’s 3-year overall DBE goal is 11.68% which covers the period of October 2010 through September 2013. MassDOT is currently at 14.3% DBE participation. However, the objective is to continue to strive for an overall 14% participation with MBEs and WBEs for the Accelerated Bridge Program. The total value of open construction bids and awarded engineering design contracts is $1.284 billion of which $172 million has been committed to businesses owned by minorities and women combined. During this period, nineteen new construction commitments were made to MBE/WBEs valued at $19.2 million. MBE/WBEs competing as prime contractors were awarded a total of $51.2 million or 4% of the total value of project work to date. Women-owned businesses have secured $97.7 million (or 7.6%) of the total commitments/awards and minority-owned businesses have secured $74.6 million (or 5.8%).

In construction, a total of $144.8 million (or 12.5%) has been committed to certified businesses owned by minorities and/or women (MBE/WBE). Of the total MBE/WBE participation, $84.3 million or 7.3% has been committed to firms owned by women and $60.7 million or 5.2% has been committed to firms owned by minorities. There was no new engineering/design activity reported during this period. In design a total of $27.3 million (or 22.2%) has been committed to MBE/WBEs. Of this total, $13.5 million (or 11.2%) has gone to businesses owned by women and $13.9 million (or 11%) has gone to businesses owned by minorities.

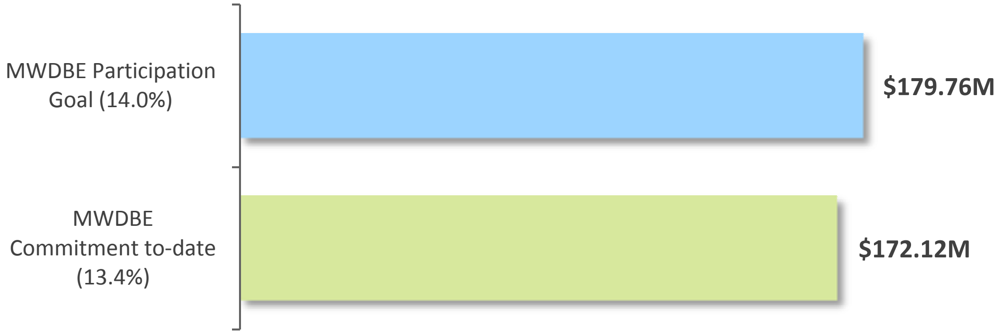
Labor Participation: Labor participation is measured in hours of work performed ("workhours") reported from the inception of the project to present. 17.25% of the total workhours performed has been attributable to minority workers while 1.50% of the workhours have been performed by female workers. Contract goals have ranged from 5% to 15.3% for minorities and up to 6.9% for women effective March 18, 2009. Construction trades include cement masons, electricians and electrical-related, equipment operators, fence erectors, forepersons, insulation workers, iron workers, semi-skilled laborers, unskilled laborers, landscapers, mechanics millwrights, painters, piledrivers, pipefitters/plumbers, plasterers, stone masons, surveyors, truck drivers, welders and cutters, and others. There has been a total of 2,651 (14.80%) minority workers and 223 (1.23%) female workers.

Project Commitment/Awards
Race Conscious and Race Neutral vs. Other



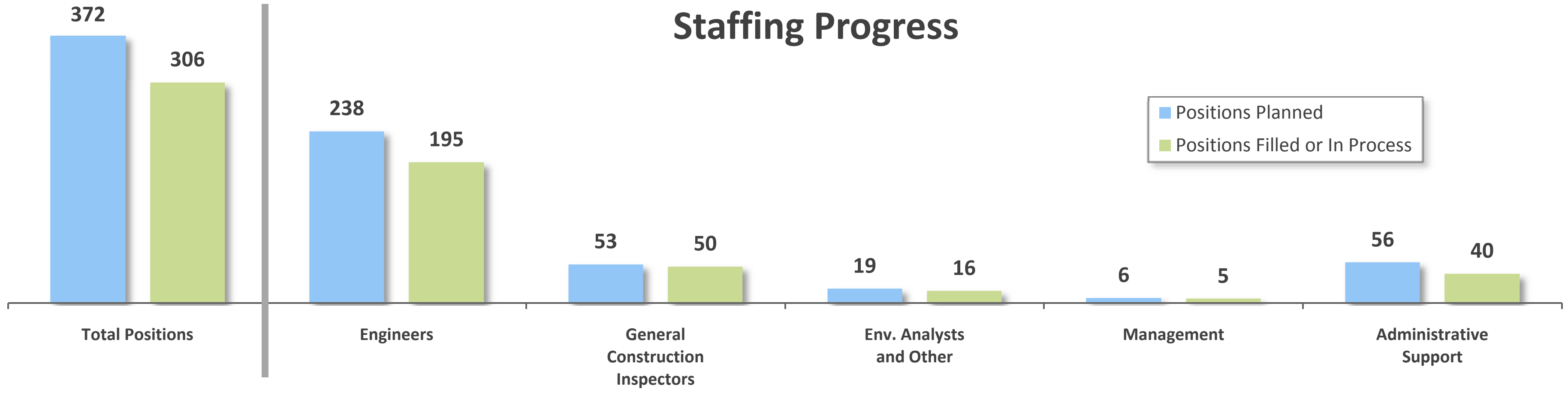
The Total MWDBE Commitment to Date is 13.40% (RC+RN). This is slightly below the 14% aspirational goal for the ABP.

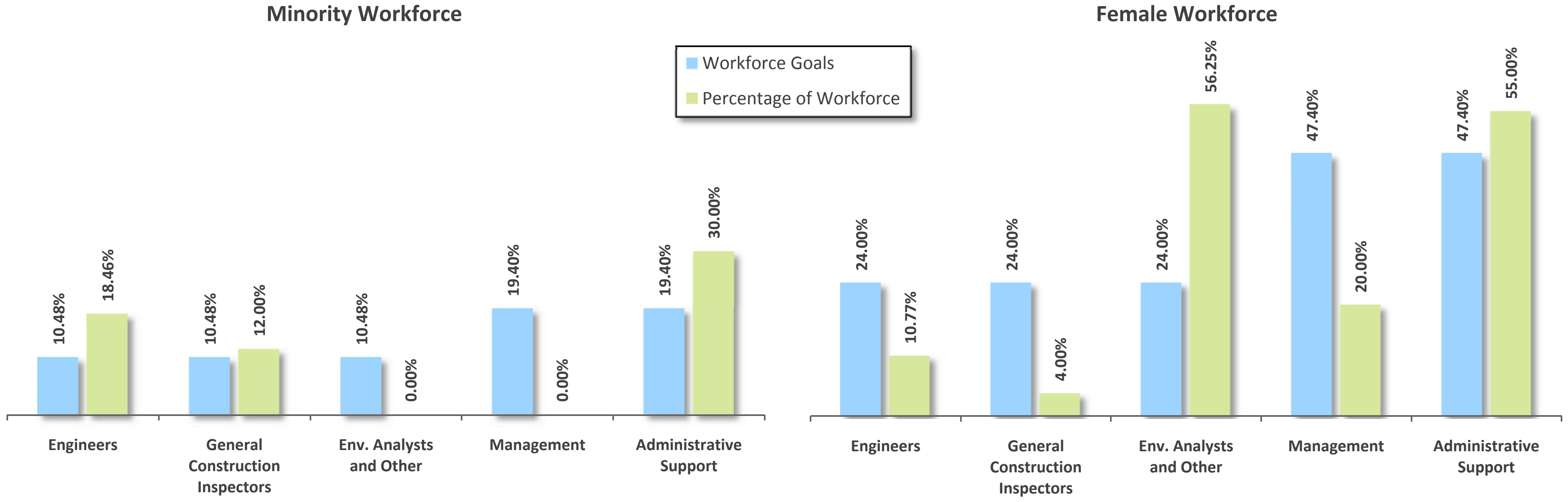
MWDBE Goal vs Commitment to Date



Program Personnel Status

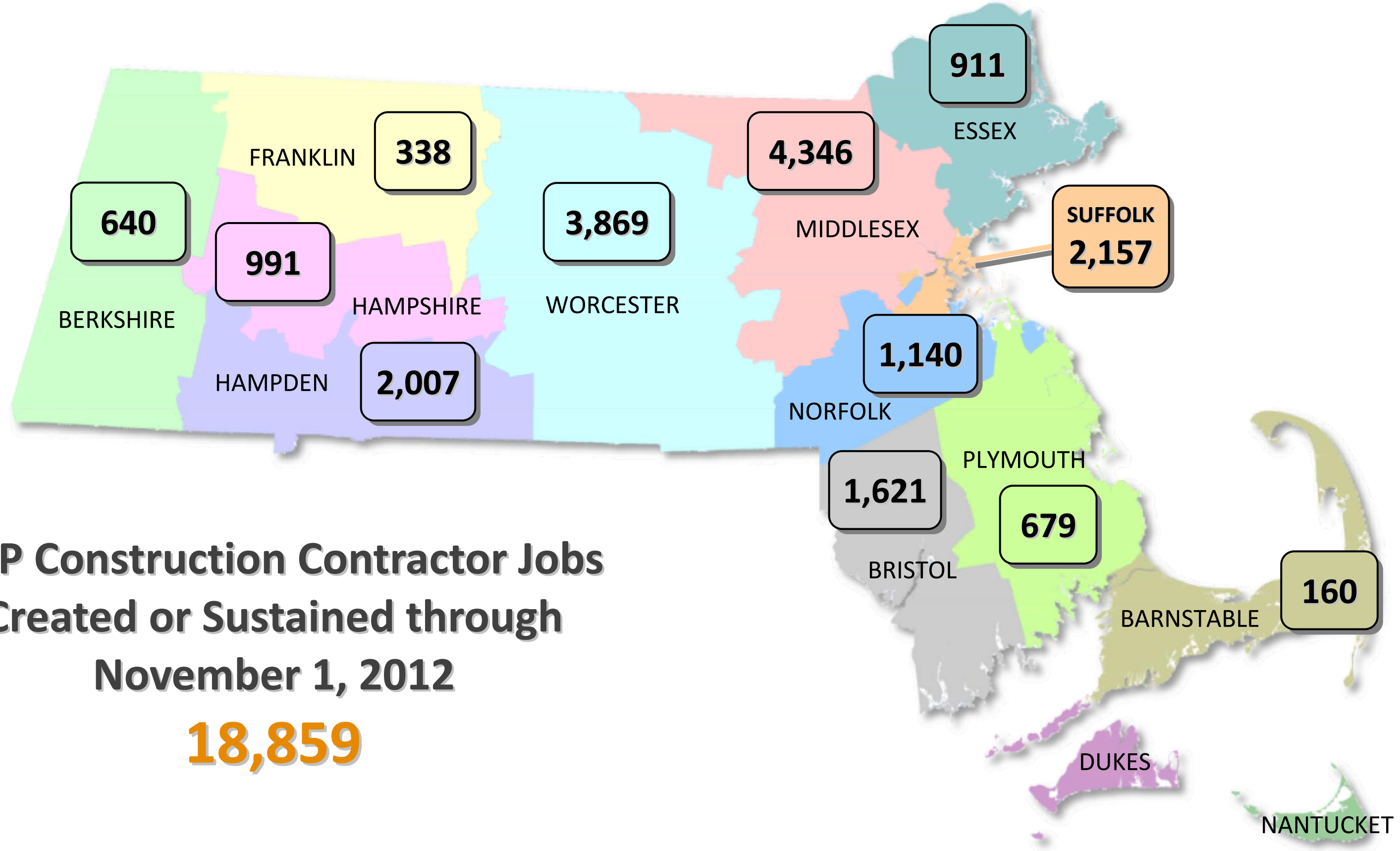
As of November 28, 2012





Job Creation and Sustention

The job count for unique individuals employed by construction contractors on Accelerated Bridge Program projects is tracked through the state-of-the-art Equal Business Opportunity software system that was implemented in April 2009 as part of the American Recovery and Reinvestment Act (ARRA). Through November 1, 2012 there have been 9,239 direct construction jobs created, and 9,620 direct construction jobs sustained associated with the Accelerated Bridge Program. The total for unique individual direct construction jobs associated with the program is 18,859. The below graphic demonstrates the distribution of direct construction jobs throughout the Commonwealth. Though there is no way for the ABP to accurately account for indirect jobs created or sustained as a result of the program, a 1998 FHWA Study estimated that 2.49 indirect jobs are created or sustained for every 1 direct construction job. Applying this ratio, the Accelerated Bridge Program may have created or sustained as many as 65,000 jobs.



ABP Construction Contractor Jobs Created or Sustained through November 1, 2012

18,859

Laboratory of Innovation

The ABP's bar-raising *93Fast14* Rapid Bridge Replacement Project is this month's *ENR New York* cover story and ENR New York's best overall project of 2012. Being on the cover of this prestigious publication is a fitting end to a year that saw MassDOT's ABP continue to build national awareness and acclaim. The project won thirteen awards in 2012. However, the ABP has gained acclaim not just for a single project, but for a program of innovation and for accomplishing major organizational change. Because of the ABP team's success in implementing innovation, its staff members have been called upon to help other agencies use innovation to meet their customers' needs. The ABP Program Manager and Director of Bridge Project Management are advising Pennsylvania DOT. The ABP Program Manager and Bridge Technical Coordinator attended a workshop to help the Vermont Transportation Agency establish and grow its own accelerated bridge program. The ABP's Bridge Technical Coordinator serves on the national Every Day Counts Prefabricated Bridge Elements and Systems (PBES) team, helping other agencies communicate about and implement PBES. The larger transportation community is benefitting from the ABP's laboratory of innovation, too: several staff members serve on important transportation committees such as those of AASHTO and PCI New England's technical committee. Scores of transportation officials and AEC representatives came to the Design and Constructability Day of an FHWA Peer Exchange to learn from MassDOT's experiences with Accelerated Bridge Construction techniques.

Awards Won in 2012

- AASHTO Bronze Performance Excellence Award, issued by AASHTO's Subcommittee on Performance Management for the 93Fast14
- AASHTO Northeast Region's America's Transportation Award, Best Use of Innovation, for the 93Fast14
- ACEC National Honor Award, for the 93Fast14
- ACEC Massachusetts, Grand Conceptor Award for Design Excellence, for the 93Fast14
- CMAA Project Achievement Award, for the 93Fast14
- CMAA New England Chapter "Project of the Year", for the 93Fast14
- Engineering News and Record (ENR) New York, Best Overall Project, for the 93Fast14
- Engineering News and Record (ENR) New York, Safety Merit Award, for the 93Fast14
- Engineering News and Record (ENR) New York, Best Transportation Project, for the 93Fast14
- Massachusetts State Police Public Service Award for contributing significantly to public safety on the 93Fast14
- National Steel Bridge Assoc. (NSBA) Prize Bridge Award, Reconstructed Category, for the 93Fast14
- NSBA Special Commendation for Accelerated Bridge Construction, for the 93Fast14
- Women in Transportation Seminar (WTS), Boston Chapter, Innovative Transportation Solutions Award for the 93Fast14
- AASHTO Northeast Region's America's Transportation Award, Ahead of Schedule, for the Wellesley Heavy Lift Project
- CMAA New England Chapter "Project of the Year", for the Wellesley Heavy Lift Project
- AASHTO TransComm Skill Award, Issues/Crisis Management, for the Wellesley Heavy Lift Project
- ACEC New York, Award for Professional Design Excellence, for the Phillipston Heavy Lift Project

Charles River Basin Status

The Charles River Basin is one of the Boston Metropolitan Area's most prominent natural resources. Out of salt-water mud flats, the 9.5 mile stretch of the Charles River between Watertown and Boston was transformed in 1910 when the mouth of the Charles, at what is now the Museum of Science, was dammed through efforts led by James Storrow. The Basin is now home to over 20 nature and recreational facilities.

Accelerated Bridge Program (ABP) Projects Underway

A number of Charles River Basin projects are currently under construction or actively in the design stage. Projects include:

Longfellow Bridge: The Environmental Assessment (EA) process has been completed and MassDOT received a Finding of No Significant Impact (FONSI) issued by Federal Highway August 24, 2012. The Request for Proposals (RFP) was issued on September 13, 2012. The procurement process for Design-Build continues, with confidential "one-on-one" meetings being held, providing a forum for all parties to address safety and operational concerns associated with work within and around the transit right-of-way. Final price and technical proposals will be submitted December 20, 2012. The Public Bid Opening is currently scheduled for January 2013.

River Street and Western Avenue Bridges**:** 75% design is due to be submitted in December. Additionally, the ENF will be filed with MEPA in January 2013.

Anderson Memorial Bridge: The Anderson Memorial Bridge is under construction. Construction began with the first phase of work starting in the middle of the bridge. This phase will be complete over the early winter.

Bike and Pedestrian Study for Pathways and Vehicular Bridges

Work continues with the preparation of the Charles River Basin Connectivity Study for Bicycles and Pedestrians. The draft study will be posted on-line for public review in January and a public information meeting will be held during the winter. A final draft will be issued in spring 2013.

Mega-Projects Status

Longfellow Bridge – Boston–Cambridge Rte 3/Cambridge Street over Charles River & Storrow/Memorial Drives

Projects 604361 (Prime Rehabilitation) and 604421 (Early Action)

Prelim. Construction Estimate	604361 – $267,500,000 *(as reported in the Chapter 233 Section 19 report to the Legislature in December 2008)*
Current Construction Budget	604361 – $288,541,425 604421 – $19,876,400
Current Status	604361 – 75% Design – Design/Build Procurement 604421 – Substantially Completed
Schedule	604361 – Bid Opening scheduled for late **January 2013** 604421 – Completed on **April 20, 2012**

Accomplishments/Expected within the next 3 months:

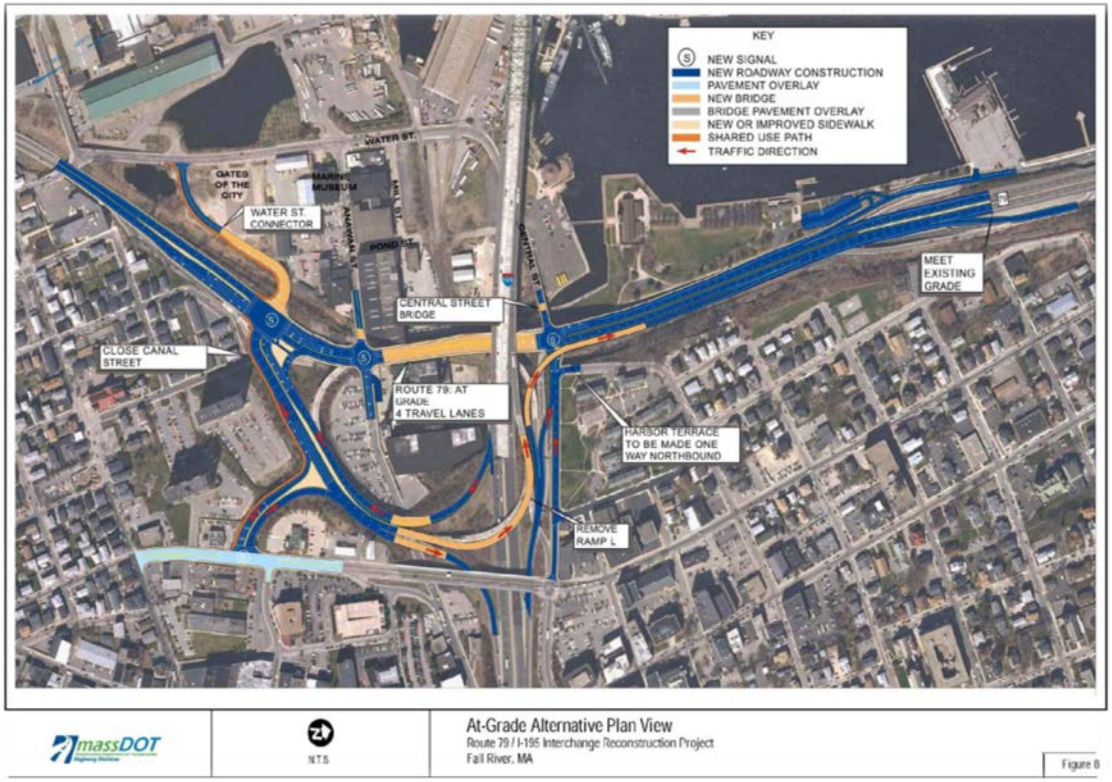
- Finding of No Significant Impact (FONSI) issued by FHWA on August 24, 2012
- Advance Preliminary Design plans (75%) have been submitted for Transit, Highway and Structural design.
- Design-Build teams shortlisted to include White/Skanska, Barletta/Walsh and Kiewit
- Project Labor Agreement with Building Trades Council submitted to FHWA on March 1, 2012
- Release of Request for Proposals occurred on September 13, 2012
- Discussions regarding the MBTA operational requirements including track outages are being addressed as part of the Request for Proposals (RFP)
- Charles River Watershed Assoc. appeal of Cambridge Conservation Commission’s Order of Conditions (OOC) has been resolved with a superseding OOC issued by DEP on November 30, 2012
- Forecast issuing Notice-to-Proceed Winter 2013

Fall River Bridge – Fall River - F-02-059 & F-02-058 – Route 79/I-195 Interchange Reconstruction and Braga Bridge Structural Repairs and Painting Phase II - Projects 605223 (Mega-Project) and 605795 (Emergency Repair)

Prelim. Construction Estimate	605223 - $115,780,823 *(as reported in the Chapter 233 Section 19 report to the Legislature in December 2008)*
Current Construction Budget	605223 - $247,705,409 (*$153.3M of ABP funding and $94.4M of STIP funding*) 605795 - $10,000,000
Current Status	605223 – In Procurement 605795 – In Construction
Schedule	605223 – Currently scheduled to release Request-for-Proposals in late **December 2012** 605795 – Construction NTP issued **July 12, 2010**, contractual completion by **July 12, 2013**

Accomplishments/Expected within the next 3 months:

- Interim structural repairs are on-going.
- Project 606354, Braga Bridge Painting and Structural Repairs Phase II, has been combined with the Rte. 79/I-195 Interchange Improvement Project. This decision will avoid likely conflicts anticipated during construction with both projects working within the same area of traffic. Funding will remain separate.
- Received Certificate from MEPA on ENF – no further MEPA action required.
- Submitted and held public hearing for Ch. 91 license in August 2012
- Bridge Sketch Plans for Water Street Connector, Ramps A, C, E & G, and Davol Street are under review.
- ACOE approval on PGP Category II permit, WQC approval, and CZM consistency
- FHWA signed FONSI on November 28, 2012
- Shortlist DB teams selected with Chief Engineer's approval on November 29, 2012
- Design Exception Report approval from FHWA
- Anticipate release of Request-for-Proposals on December 28, 2012
- *Alternative Technical Concepts* (ATCs) to be presented by Design/Build entities



Fore River Bridge – Quincy/Weymouth, Q-01-001=W-32-001, State Route 3A (Washington Street) over the Fore River Project 604382

Prelim. Construction Estimate	$242,592,000 *(as reported in the Chapter 233 Section 19 report to the Legislature in December 2008)*
Current Construction Budget	$272,117,937 (Contracted)
Current Status	In Construction
Schedule	Full Notice-to-Proceed issued on **October 15, 2012**

Accomplishments/Expected within the next 3 months

- Public Bid Opening held on July 18, 2012 with J.F. White/Skanska/Koch JV as the DB Team selected.
- Remaining right-of-way certificates were obtained October 15, 2012
- Full NTP issued October 15, 2012
- Liftspan and approaches "Over the Shoulder" reviews ongoing
- Baseline schedule submitted on November 26, 2012
- Operation and Maintenance of existing temporary lift bridge assumed by White/Skanska on November 26, 2012
- Staging site work on Quincy side complete.
- Temporary work trestle construction 30% complete on Quincy side
- Staging site work for trestle has commenced on Weymouth side

Shrewsbury – State Route 9 (Belmont Street) over Lake Quinsigamond, Bridge Replacement, Project 604729

Prelim. Construction Estimate	$137,303,500 *(as reported in the Chapter 233 Section 19 report to the Legislature in December 2008)*
Current Construction Budget	$110,278,104 (Contracted)
Current Status	In Construction
Schedule	Project Completion scheduled for **January 23, 2016**

Accomplishments/Expected within the next 3 months

- Full Notice-to-Proceed was issued on May 18, 2012
- Quality Management Plan has been approved
- 75% Highway Plans have been submitted for review, and 75% Bridge Plans have been submitted for the EB Bridge for review
- Continue bridge and highway “Over the Shoulder” review
- Environmental permits and submittals are being reviewed
- Temporary trestle at off-site staging area to facilitate movement of equipment and supplies to construction site using barges has been completed
- Temporary access road on South side of bridge at West abutment constructed
- American U-Tel has installed conduit lines along south side of existing bridge
- 36-inch diameter steel pile driving commenced Phase 1, Pier 4
- Sheeting/cofferdam installed for Phase 1, east abutment
- Verizon conduit excavated and relocated at Lake Ave and Belmont St. in order to allow the lines to be spliced in place on the existing bridge, and then be moved over to the new southern bridge.
- Partial excavation of island completed
- EWO’s for emergency repairs to existing bridge completed November 16, 2012

Data represented in this report is through at least November 1, 2012 unless otherwise indicated

Whittier Bridge – Amesbury/Newburyport - Route I-95 over Merrimack River & Evans Place, Bridge Replacement, Project 601096

Prelim. Construction Estimate	$285,000,000 *(as reported in the Chapter 233 Section 19 report to the Legislature in December 2008)*
Current Construction Budget	$244,826,400
Current Status	In Procurement
Schedule	Request-for-Proposals released on **September 27, 2012**

Accomplishments/Expected within the next 3 months:

- A working group task force consisting of the CEO's and appointed representatives from Amesbury, Salisbury and Newburyport has been established and meets on a regular basis.
- Bridge Sketch Plans/Highway Design submitted January 2012 and are being revised for re-submittal.
- Final Design Exception Report has been approved by FHWA
- FONSI was issued by FHWA on January 21, 2012
- Final EIR submitted to MEPA on Feb 28, 2012; Secretary EOEA Certificate rec'd on April 16, 2012
- Design Public Hearing held on June 21, 2012
- DB Teams shortlisted on August 15, 2012
- US Coast Guard Permit issued on August 24, 2012
- Issue Request for Proposals to shortlisted teams September 27, 2012
- Hold final meeting with CEO's in mid-September
- Awaiting approval of Project Labor Agreement
- Technical and Price Proposals due from Design/Build entities on January 10, 2013

Data represented in this report is through at least November 1, 2012 unless otherwise indicated

Communications & Outreach Plans

MassDOT's Accelerated Bridge Program is committed to public outreach throughout the duration of each individual project. During this quarter, ribbon cutting and groundbreaking ceremonies were held for the Neponset River Bridge and Fore River Bridge Replacement, respectively. On Thursday, October 25, 2012, Lieutenant Governor Timothy P. Murray and MassDOT Secretary and CEO Richard A. Davey joined state and local officials to celebrate the end of daytime lane restrictions on the Neponset River Bridge. On November 9, 2012, MassDOT Secretary Richard A. Davey joined Governor Deval Patrick to break ground on the replacement of the Fore River Bridge connecting Quincy and Weymouth.

Recent public outreach activities include the following meetings/public hearings:

Fore River Legislative Delegation Briefing - September 20, 2012

- MassDOT staff and its contractor met with the Quincy/Weymouth delegation to discuss the project schedule. As of November 2012, preliminary work on the Fore River Bridge Replacement has begun, however, construction activities will not impact traffic or the operation of the MBTA commuter ferry until spring 2013.

Longfellow meeting with MIT and Partner Healthcare - October 9, 2012

- The purpose of this briefing was to provide these two stakeholders with a project schedule update as well as to discuss the proposed construction detour route. MassDOT anticipates construction to start for this project in the spring of 2013.

Whittier Bridge/I-95 Improvement Project Working Group Meeting - November 13, 2012

- A meeting of the Whittier Working Group was held on Tuesday, November 13 at 2:30 PM at the Salisbury Town Hall Auditorium. The purpose of this meeting was to provide a project update and discuss the shared use path interpretive panels and the bridge paint color.

Mitchell River Bridge Replacement Project Public Hearing, Chatham Community Center, Chatham, MA – November 27, 2012

- Over 40 people attended the public hearing that was scheduled to seek public comments on the Environmental Assessment for the proposed Mitchell River Bridge Replacement Project. The public comment period on the Environmental Assessment closes December 7, 2012.

Burns Bridge Replacement Project Aesthetics Committee Update Meeting, MassDOT District 3 Headquarters – December 6, 2012

- The purpose of this meeting was to present the status of the design for the aesthetic features of the bridge. In addition, MassDOT's contractor provided updated renderings and discussed the lighting concepts under review.

MassDOT/DCR Interagency Service Agreement (ISA)

The DCR ISA expenditures through November 1, 2012 total $10.62M of the total ISA value of $36.98M.

Completed Projects

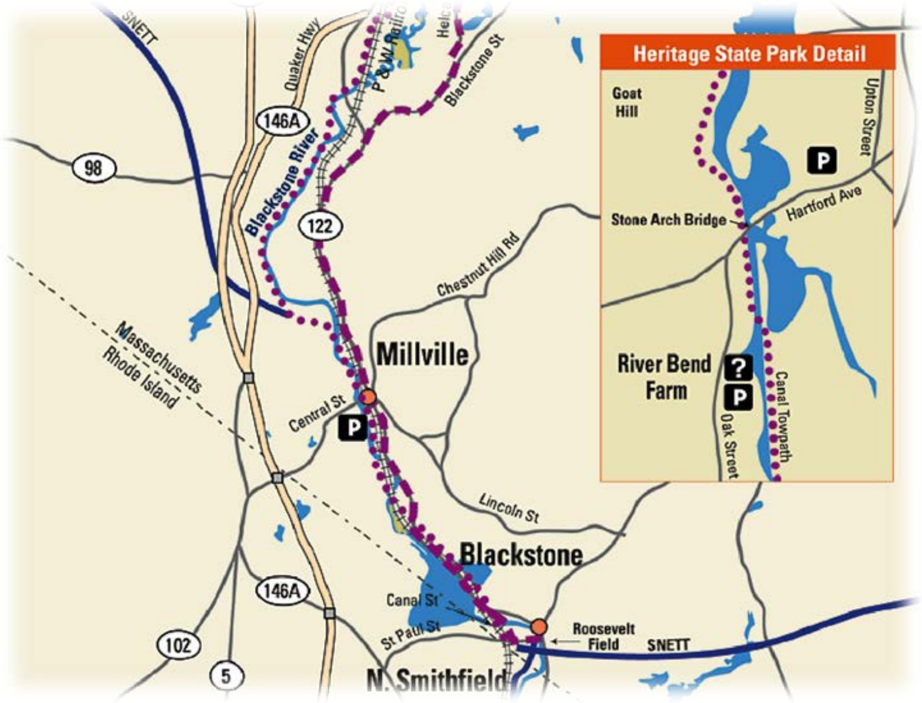
Several completed projects have been reported on extensively in previous reports, including bridge repairs or replacements at the Otis Dam, Speen Street in Natick, the Walter Baker Bridge in Boston, and the Bradley Palmer pedestrian bridge in Ipswich. Two separate statewide contracts for painting and preservation repairs have been closed out and included four bridges painted and nine bridges repaired.

Since the last update, the DCR has completed the Snell Street Bridge project and repaired two additional structures.

Blackstone Valley Rail Trail Bridges (Blackstone & Millville)

The DCR received the 90% design plans for the Blackstone Valley Rail Trail bridges for the Main Street Bridge. After reviewing the profiles, it was determined that utilizing a through-girder in combination with narrowing the floor beam spacing in conjunction with raising the bridge structure clearance from 12' to 14'-8", the profile of the approaches did not change significantly and raising the structure an additional 1' of clearance would not substantially induce excessive stresses on the high retaining walls of the elevated rail bed. The DCR is in the process of revising the design plans to incorporate the 15'-8" vertical clearance for the final design documents.

A statewide painting contract, mentioned below, has been awarded to Prime Painting and work on bridges located along the Blackstone River Greenway Segment 1 are forecast to start in May 2013 after SPS has completed structural repairs. DCR awarded the maintenance contract to SPS and construction has been ongoing since September 2012.



Historic Weeks Footbridge (Boston)

The Phase II Project has obtained a waiver from the Massachusetts Access Board and is proceeding into final design. It is anticipated that the project will be advertised in late Spring 2013 with commencement of construction in the Summer of 2013.

Norwottuck Rail Trail Bridge (Hadley-Northampton)

SGH has been authorized to proceed with design for the Connecticut River Pedestrian Bridge. It is anticipated that construction will commence in late Summer 2013.

Norwottuck Rail Trail Bridge at Snell Street (Amherst)

MAS Building and Bridge Inc. has completed the replacement of the Snell Street Bridge. The structure was opened to pedestrians in September, 2012, which was well ahead of schedule.

Statewide Bridge Painting Contract

A statewide bridge painting contract has been awarded to Prime Coatings. The contractor has completed the Lynn Pedestrian Bridge. The Storrow Drive Tunnel painting has been deferred to May 2013. Additionally, Prime Coatings will be commencing work on the Blackstone Rail Trail in the spring of 2013.

Herter Pedestrian Bridge being repaired prior to the 2012 Head of the Charles event

Statewide Emergency Repair (Boston)

NEL Corporation has responded to three assignments and has completed two assignments. These were the Beartown State Forest Bridge and the Herter Center Pedestrian Bridge. The Herter Pedestrian Bridge was completed one week before the national Head of the Charles event. The third assignment is the repairs to the River Street Pump House, which is still ongoing.

Storrow Drive Tunnel – Design and Construction Contracts for Removal of Tunnel Overburden (Boston)

The construction contract has been awarded to D'Allessandro Corporation. The construction started in September 2012 and is ongoing.

Recognitions

The Accelerated Bridge Program's focus on innovation is gaining notoriety within the construction and engineering communities, and MassDOT is pleased to announce that the ABP has already received several awards.

Award Name	Awarding Organization	Award Recipient (i.e. project name, program, or person)	Award Year	Type and Value of Award (i.e. grant, scholarship, etc.)
CMAA Project Achievement Award	CMAA, New England Chapter	Grafton Precast Design Build Bundle	2010	Award
Highways for Life	FHWA	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2010	Discretionary Funding, $1,000,000
Highways for Life	FHWA	Charlemont Bridge Replacement, Mountain Rd. over Hartwell Brook	2010	Discretionary Funding, $285,680
Innovative Bridge Research and Development (IBRD)	FHWA	Fitchburg "Bridge-in-a-Backpack", Ashby West Road over the Scott Reservoir Outlet	2010	Discretionary Funding, $400,000
2011 PCI Design Award, Non-Highway Category (Category TE)	PCI	DCR Access Road Bridge over Route 24, Randolph	2011	Award
AASHTO 2011 Francis B. Francois Innovation Award	AASHTO	ABP (Program)	2011	Scholarship, $10,000
AASHTO America's Transportation Award, Innovative Management, Small Project Category	AASHTO (NASTO)	Phillipston "Heavy Lift" Route 2 over Route 2A	2011	Award
ASBI Bridge Award of Excellence	ASBI	DCR Access Road Bridge over Route 24, Randolph	2011	Award
Bond Buyer's 'Deal of the Year' Award for Accelerated Bridge Program 'AAA' Rated Bonds	Bond Buyer Newspaper	Massachusetts Executive Office of Administration and Finance	2011	Award
CMAA Program of the Year	CMAA, New England Chapter	Accelerated Bridge Program (Phase I)	2011	Award
CMAA Project of the Year	CMAA, New England Chapter	Phillipston "Heavy Lift" Route 2 over Route 2A	2011	Award
Conservation Hero Award	National Parks Service	District Bridge Coordinator, Ed Lauiser and District 1 McNerney Road bridge over Shaker Mill Brook in Becket	2011	Award
Gold Award for Professional Design Excellence	ACEC-MA	Phillipston "Heavy Lift" Route 2 over Route 2A	2011	Award
Innovative Bridge Research and Development (IBRD)	FHWA	Easthampton Bridge Replacement, Rte. 10 (Northampton St.) over the Manhan River.	2011	Discretionary Funding, $300,000

Award Name	Awarding Organization	Award Recipient (i.e. project name, program, or person)	Award Year	Type and Value of Award (i.e. grant, scholarship, etc.)
Innovative Transportation Solutions Award	WTS Massachusetts Chapter	Phillipston "Heavy Lift" Route 2 over Route 2A	2011	Award
Norman B. Leventhal Award for Excellence in City Building	A Better City	ABP Program and the 93Fast14 Project	2011	Award
Public Works Project of The Year Award	APWA, New England Chapter	Phillipston "Heavy Lift" Route 2 over Route 2A	2011	Award
Public Works Project of The Year Award	APWA, National	Phillipston "Heavy Lift" Route 2 over Route 2A	2011	Award
Project of the Year	CMAA, New England Chapter	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award
Project of the Year	CMAA, New England Chapter	Wellesley Cedar Street over Route 9	2012	Award
Grand Conceptor Award	ACEC MA	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award
Honor Award	ACEC National	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award
Stephen O'Donnell "Can Do" Award	MassDOT	Ernie Monroe, Resident Engineer for 93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award
Prize Bridge Award, Reconstructed Category	National Steel Bridge Association	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award
Special Commendation for Accelerated Bridge Construction	National Steel Bridge Association	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award
America's Transportation Award, Best Use of Innovation	AASHTO (NASTO)	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award
Innovative Transportation Solutions Award	WTS Massachusetts Chapter	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award
America's Transportation Award, Ahead of Schedule	AASHTO (NASTO)	Wellesley Cedar Street over Route 9	2012	Award
Professional Design Excellence	ACEC New York	Phillipston "Heavy Lift" Route 2 over Route 2A	2012	Award
Bronze Performance Excellence Award	AASHTO	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award
Project Achievement Award	CMAA, National	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award

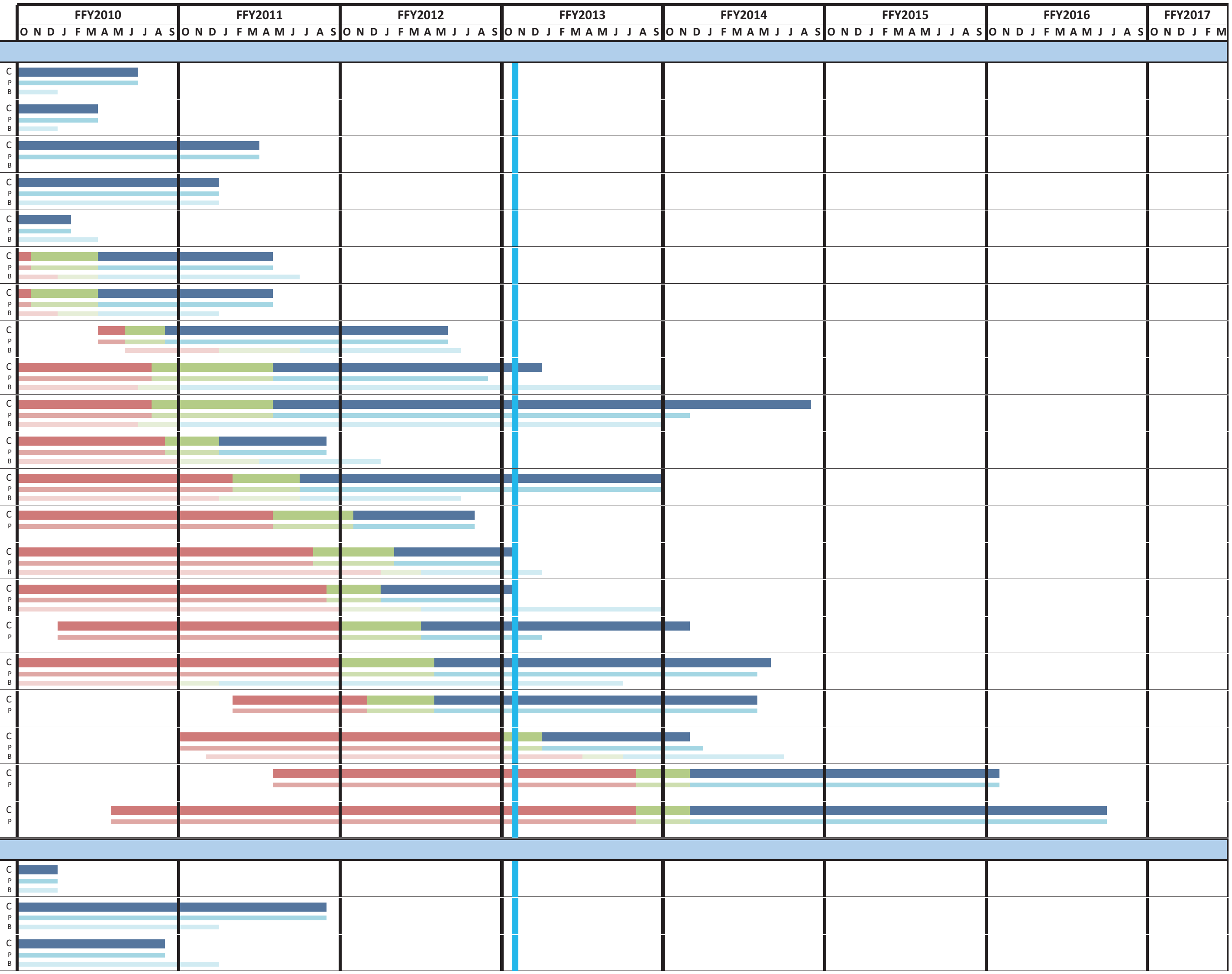
Award Name	**Awarding Organization**	**Award Recipient** (i.e. project name, program, or person)	**Award Year**	**Type and Value of Award (i.e. grant, scholarship, etc.)**
Best Overall Project	Engineering New Record New York	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award
Best Transportation Project	Engineering New Record New York	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award
Safety Merit Award	Engineering New Record New York	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award
Public Service Award for Contributing Significantly to Public Safety	Massachusetts State Police	93Fast14 Rapid Bridge Replacement Project, I-93, Medford	2012	Award
TransComm Skill Awards for Issues/Crisis Management	AASHTO	Wellesley Cedar Street over Route 9	2012	Award

Master Schedule

ABP Project Summary Schedule Report - Dec-2012 Quarterly Report

Grouped by District - Sorted by Advertisement Date

Project Number/ Contract	Project Description	Current Construction Budget
District 1		
605082 56608	HUNTINGTON- BRIDGE BETTERMENT, H-27-006, ROUTE 112 (WORTHINGON ROAD) OVER CSX RR AND WESTFIELD RIVER	$2,228,910
602349 56842	CHESTER- BRIDGE PRESERVATION, C-11-013, MAPLE STREET OVER THE WEST BRANCH OF THE WESTFIELD RIVER	$2,834,923
605262 56779	DISTRICT 1- SCHEDULED & EMERGENCY SUBSTRUCTURE REPAIRS AT VARIOUS LOCATIONS	$1,366,232
605078 57804	HAWLEY- BRIDGE DECK PRESERVATION, H-13-007, WEST HAWELY ROAD (ROUTE 8A) OVER CHICKLEY RIVER	$2,134,119
605045 57889	BECKET- BRIDGE PRESERVATION, B-03-016, McNERNEY ROAD OVER SHAKER MILL BROOK	$961,333
604166 62024	CHESHIRE- BRIDGE REPLACEMENT, C-10-007, HARBOR ROAD OVER HOOSIC RIVER	$945,404
602640 61916	WINDSOR- BRIDGE REPLACEMENT, W-41-020, HIGH STREET HILL ROAD OVER WESTFIELD BROOK (AKA- POLLY HARWOOD BRIDGE)	$730,265
605464 64843	DISTRICT 1- SCHEDULED AND EMERGENCY REPAIRS (ABP-PR18)	$1,804,156
605460 67757	HUNTINGTON- BRIDGE REPLACEMENT, H-27-006, (CSX DESIGN/BUILD - ABP-CSX2)	$4,902,800
605459 67946	CHESTER- HINSDALE- RICHMOND- WEST SPRINGFIELD- BRIDGE RECONSTRUCTION, C-11-002, C-11-008, H-16-013, H-16-014, R-06-	$25,865,339
604051 66665	COLRAIN- BRIDGE REPLACEMENT, C-18-023, ROUTE 112 (GRISWOLDVILLE ROAD) OVER GRISWOLDVILLE CANAL	$3,380,034
603701 68164	DALTON- BRIDGE REPLACEMENT, D-01-012, CLEVELAND ROAD OVER WAHCONAH FALLS BROOK	$922,447
603646 68821	WORTHINGTON- BRIDGE REPLACEMENT, W-45-006, ROUTE 112 OVER KEARNEY BROOK	$1,096,576
603704 70090	CHARLEMONT- BRIDGE REPLACEMENT, C-05-036, MOUNTAIN ROAD OVER HARTWELL BROOK	$795,377
604005 70376	CONWAY- BRIDGE REPLACEMENT, C-20-003, NORTH POLAND ROAD OVER POLAND BROOK	$1,812,948
605439 71085	BECKET- CHESTER- BRIDGE REPLACEMENTS, B-03-008, B-03-010, B-03-011, B-03-037 & C-11-033 (US ROUTE 20), JACOB'S LADDER ROAD	$4,579,379
604050 71228	SANDISFIELD- BRIDGE REPLACEMENT, S-03-004, ROUTE 8 & 57 OVER THE WEST BRANCH FARMINGTON RIVER	$3,553,857
606418 71843	DISTRICT 1- BRIDGE REPAIRS AT VARIOUS LOCATIONS	$880,247
602859 75351	ALFORD- GREAT BARRINGTON- BRIDGE REPLACEMENT, A-06-003, ALFORD ROAD OVER ALFORD BROOK	$1,318,721
604669	WEST STOCKBRIDGE- BRIDGE REPLACEMENT, W-22-004, ROUTE 41 (GREAT BARRINGTON ROAD) OVER WILLIAMS RIVER	$2,571,426
604516	SHEFFIELD- BRIDGE REPLACEMENT, S-10-023, STATE ROUTE 7A (ASHLEY FALLS ROAD) OVER THE HOUSATONIC RAILROAD	$3,873,694
District 2		
605057 56338	CHICOPEE-WEST SPRINGFIELD- BRIDGE PRESERVATION, C-13-034=W-21-043, I-91 OVER CONNECTICUT RIVER	$3,868,140
604982 56365	AGAWAM- SPRINGFIELD- BRIDGE PRESERVATION (PAINTING), A-05-001=S-24-005, ROUTE 5 OVER THE CONNECTICUT RIVER	$11,467,590
602570 56557	SPRINGFIELD- BRIDGE BETTERMENT, LONGHILL STREET (NB & SB) AND ROUTE 5 OVER I-91, INCLUDES S-24-049, S-24-050, S-24-051	$5,438,118



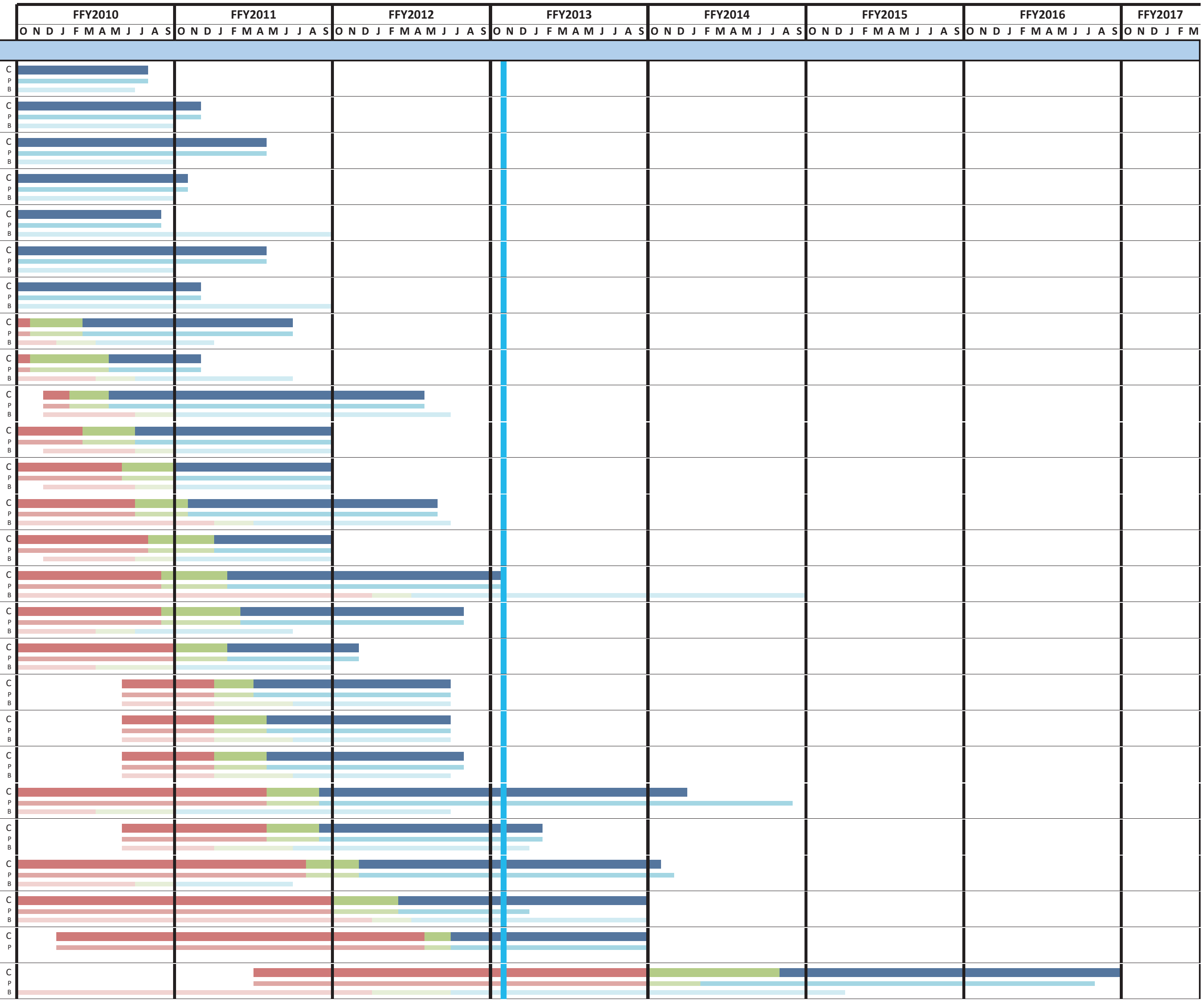
🟥 **DESIGN** 🟩 **PROCUREMENT** 🟦 **CONSTRUCTION**

C = Current Schedule; P = Previous Quarter;
B = December 2008 Chapter 233 Section 19

Data Date = Nov-1-2012

District 2

Project Number/ Contract	Project Description	Current Construction Budget
603794 57045	PETERSHAM- BRIDGE BETTERMENT, P-08-001, ROUTE 32 & 122 OVER THE EAST BRANCH OF THE SWIFT RIVER	$1,712,150
605236 56993	DISTRICT 2- BRIDGE SUBSTRUCTURE REPAIRS (SECTION 2A)	$5,010,105
605237 56995	DISTRICT 2- BRIDGE SUBSTRUCTURE REPAIRS (SECTION 2B)	$5,079,740
603290 57676	SPRINGFIELD- BRIDGE PRESERVATION, S-24-068, LIBERTY STREET OVER ROUTE I-291 AND S-24-069, ARMORY STREET OVER ROUTE I-	$5,114,900
604933 57675	SOUTH HADLEY- BRIDGE PRESERVATION, S-18-015, ROUTE 202 OVER BARDWELL STREET & S-18-016, ROUTE 202 OVER ROUTE 116	$4,081,429
604218 57759	SPRINGFIELD- BRIDGE PRESERVATION, S-24-032, STATE STREET OVER ROOSEVELT AVENUE	$2,308,282
604604 57890	CHICOPEE- SPRINGFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON I-91	$3,090,264
604464 61793	EASTHAMPTON- BRIDGE REPLACEMENT, E-05-019, HENDRICK STREET OVER BROAD BROOK	$1,290,990
603495 63235	PHILLIPSTON- BRIDGE REPLACEMENT, P-09-004, ROUTE 2 OVER ROUTE 2A (STATE ROAD)	$3,501,591
605469 62560	DISTRICT 2- SCHEDULED AND EMERGENCY BRIDGE STRUCTURAL REPAIRS AT VARIOUS LOCATIONS (ABP)	$4,498,978
605466 63233	DISTRICT 2- INTERSTATE DECK REPAIRS (ABP-PR4)	$1,795,488
605468 64519	DISTRICT 2- INTERSTATE SUBSTRUCTURE REPAIRS (ABP-PR5)	$1,782,452
602540 65709	BRIMFIELD- BRIDGE REPLACEMENT, B-24-006, ST ROUTE 19 (WALES ROAD) OVER MILL BROOK INCLUDING REPAIR OF ABUTMENT	$2,252,910
605473 66564	SPRINGFIELD- BRIDGE DECK & JOINT REPAIR, S-24017 & S-24-071, SAINT JAMES AVENUE OVER I-291 (ABP-PR6)	$1,799,703
604912 66834	ATHOL- BRIDGE PRESERVATION, A-15-033, A-15-034, ROUTE 2 OVER SOUTH ATHOL & WHITE POND ROAD	$4,144,112
601322 67099	SOUTHWICK- BRIDGE REPLACEMENT, S-22-005, ROUTE 202/ROUTE 10 OVER JOHNSON BROOK	$2,492,838
601796 3 67314	WEST BROOKFIELD- BRIDGE REPLACEMENT, W-19-006, LONG HILL ROAD OVER CSX RR	$229,981
605465 67754	DISTRICT 2- INTERSTATE DECK REPAIRS AT VARIOUS LOCATIONS (ABP-PR19)	$1,584,657
605467 67756	DISTRICT 2- INTERSTATE SUBSTRUCTURE REPAIRS AT VARIOUS LOCATIONS (ABP-PR20)	$1,313,772
605472 68209	DISTRICT 2- SCHEDULED AND EMERGENCY REPAIRS AT VARIOUS LOCATIONS (ABP-PR21)	$1,346,078
603180 68530	CHICOPEE- BRIDGE REPLACEMENT, C-13-008, ROUTE 116 (SPRINGFIELD STREET) OVER THE CHICOPEE RIVER (AKA - DAVITT	$9,586,199
605470 68595	CHICOPEE- BRIDGE PRESERVATION, C-13-043, I-90 OVER I-391 (ABP-NFA7)	$3,554,052
605084 69940	BARRE- BRIDGE REPLACEMENT, B-02-005, ROUTE 122 OVER PRINCE RIVER	$1,798,460
603735 70936	HOLYOKE- BRIDGE REPLACEMENT, H-21-039, ROUTE 202 (BEECH STREET) OVER B&M R.R.	$4,853,059
604048 73269	EASTHAMPTON- BRIDGE REPLACEMENT, E-05-006, ROUTE 10 (NORTHAMPTON STREET) OVER MANHAN RIVER	$4,122,008
605353	WEST SPRINGFIELD- SUPERSTRUCTURE REPLACEMENT, W-21-025, SR 147 (WB/EB) (MEMORIAL AVENUE) OVER (US 5) RIVERDALE STREET	$9,447,100



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C P B **C = Current Schedule; P = Previous Quarter;**
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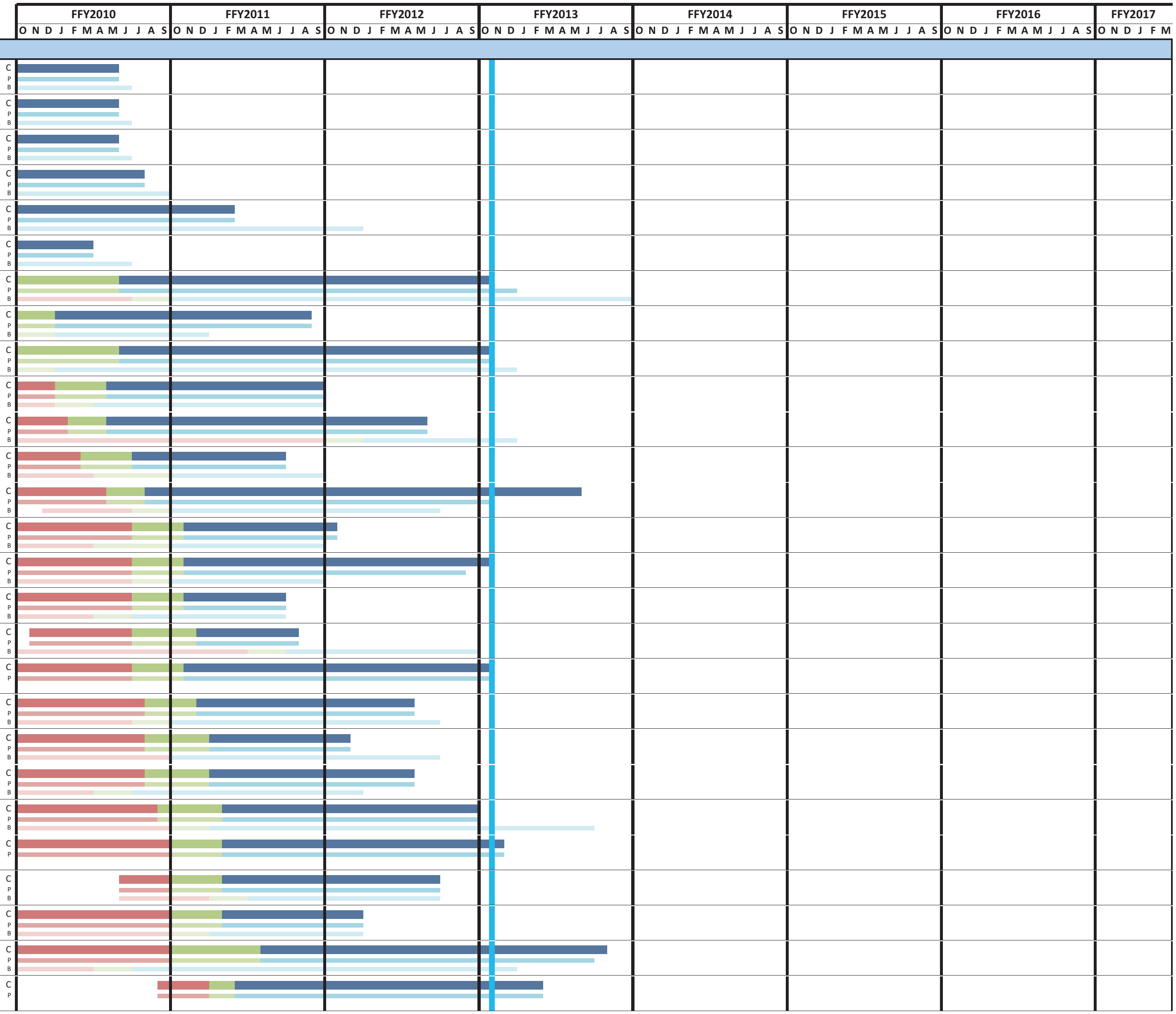
District 3

Project Number/ Contract	Project Description	Current Construction Budget
605241 56748	DISTRICT 3- SCHEDULED SUBSTRUCTURE REPAIRS & RELATED WORK (AREA C)	$3,584,335
605240 56746	DISTRICT 3- SCHEDULED SUBSTRUCTURE REPAIRS & RELATED WORK (AREA B)	$4,153,532
605234 56745	DISTRICT 3- SCHEDULED SUBSTRUCTURE REPAIRS & RELATED WORK (AREA A)	$3,498,960
605247 57162	DISTRICT 3- SCHEDULED & EMERGENCY BRIDGE DECK REPAIRS	$3,342,298
605085 58007	MARLBOROUGH- BRIDGE PRESERVATION, M-06-016, I-290 (EB & WB) OVER I-495	$4,258,929
604463 58177	ASHBURNHAM- BRIDGE REPLACEMENT, A-11-016, LAKE ROAD OVER WATATIC LAKE OUTLET	$568,743
605461 62862	BROOKFIELD- CHARLTON- SPENCER-WEST BROOKFIELD- WESTBOROUGH- WORCESTER- BRIDGE RECONSTRUCTION,	$24,144,250
603975 60857	GARDNER- BRIDGE REPLACEMENT, G-01-023, TRAVERS STREET OVER TRAVERS POND OUTLET	$1,192,161
603321 62371	WESTMINSTER- BRIDGE REPLACEMENT, W-28-021, ROUTE 2 (EB & WB) OVER WEST MAIN STREET (ROUTE 140)	$13,671,253
603350 62564	STURBRIDGE- BRIDGE REHABILITATION, S-30-004, HAYNES STREET OVER THE QUINEBAUG RIVER	$2,168,423
603992 62672	SOUTHBRIDGE- BRIDGE RECONSTRUCTION, S-21-033, ALPINE DRIVE OVER LEBANON BROOK	$1,319,101
605475 63234	DISTRICT 3- INTERSTATE DECK REPAIRS (ABP-PR7)	$1,792,440
605477 63976	DISTRICT 3- INTERSTATE SUBSTRUCTURE REPAIRS (ABP-PR8)	$4,487,000
604252 65279	SUTTON- BRIDGE RECONSTRUCTION, S-33-013, MAIN STREET OVER THE MUMFORD RIVER	$1,207,916
603602 65274	ASHLAND- BRIDGE REPLACEMENT, A-14-002, ROUTE 135 (UNION STREET) OVER THE SUDBURY RIVER	$2,317,303
604264 65605	STERLING- BRIDGE REPLACEMENT, S-25-006, ROUTE 62 (PRINCETON ROAD) OVER THE STILLWATER RIVER	$1,386,086
604634 66091	FITCHBURG- BRIDGE REPLACEMENT, F-04-053, ASHBY WEST ROAD OVER THE SCOTT RESERVOIR OUTLET	$985,936
605337 65714	SOUTHBOROUGH- BRIDGE PRESERVATON, S-20-018, I-495 (NB/SB) OVER HULTMAN AQUEDUCT & RAILROAD	$4,734,903
603671 65827	PEPPERELL- BRIDGE REPLACEMENT, P-06-003, MILL STREET OVER THE NISSITISSIT RIVER	$1,619,503
604788 66466	UXBRIDGE- BRIDGE REPLACEMENT, U-02-030, RIVER ROAD OVER THE IRONSTONE BROOK	$1,924,899
601667 66563	MILLIS- BRIDGE REPLACEMENT, M-23-006, PLEASANT STREET OVER CHARLES RIVER	$2,774,663
604514 66843	UXBRIDGE- BRIDGE REPLACEMENT, U-02-001, STATE ROUTE 122 (MAIN STREET) OVER THE BLACKSTONE RIVER	$3,090,884
605976 67022	WEBSTER- BRIDGE PRESERVATION, W-12-023, W-12-024, W-12-025 & W-12-026, ALONG I-395	$3,646,360
605476 67059	DISTRICT 3- INTERSTATE SUBSTRUCTURE REPAIRS (ABP-PR23)	$1,797,170
603694 67313	FRAMINGHAM- BRIDGE RECONSTRUCTION, F-07-063, DANFORTH STREET OVER THE SUDBURY RIVER	$1,847,852
604506 68140	NORTHBRIDGE- BRIDGE REPLACEMENT, N-21-002, ROUTE 122 (PROVIDENCE ROAD) OVER THE BLACKSTONE RIVER (AKA ROSAIRE	$4,516,886
606263 67815	DISTRICT 3- TREE TRIMMING & SITE DISTANCE CLEARING FOR UTILITY RELOCATIONS	$157,050



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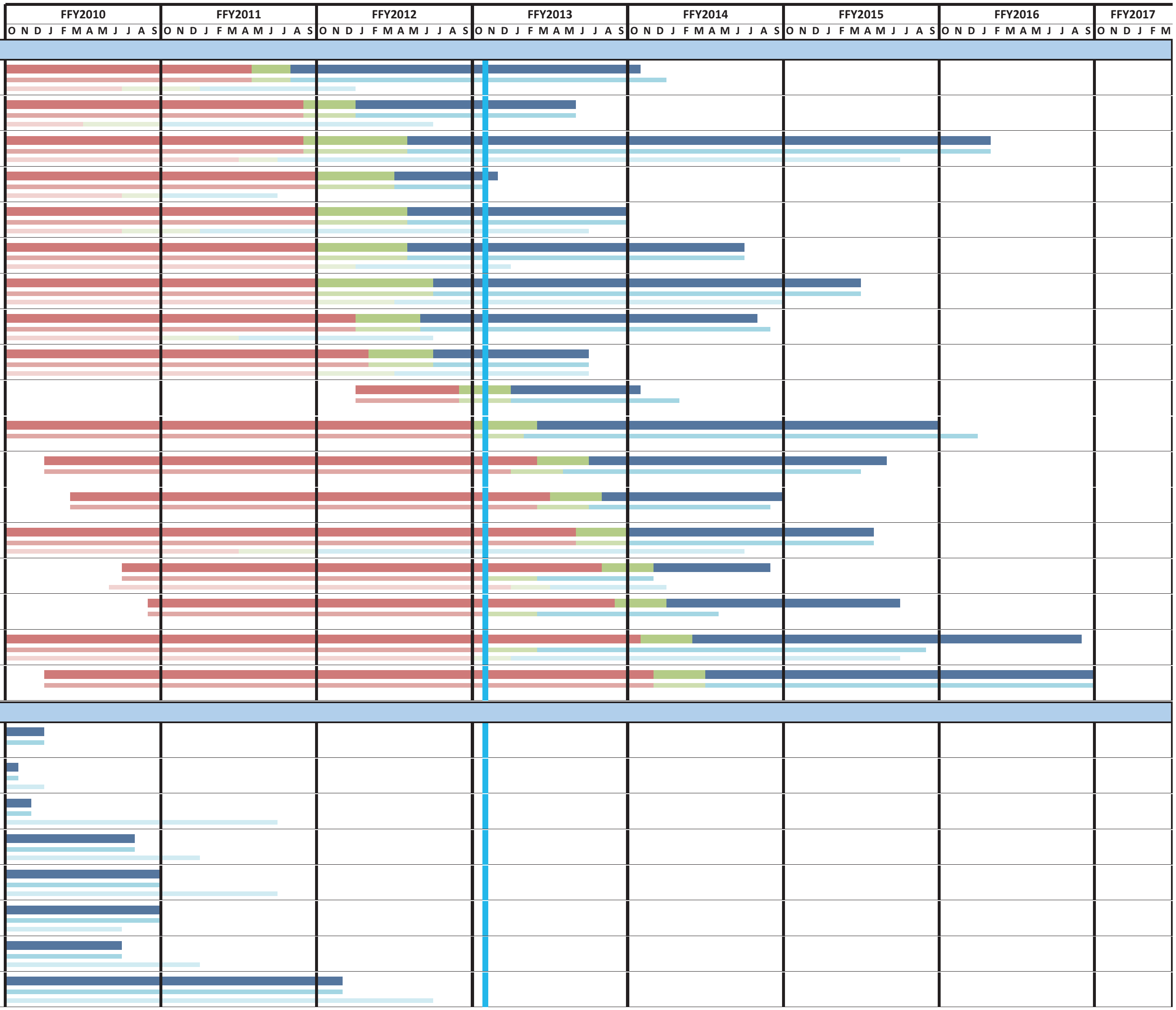
District 3

Project Number/ Contract	Project Description	Current Construction Budget	
604046 68529	FITCHBURG- BRIDGE REPLACEMENT, F-04-007, ROUTE 2A (KIMBALL STREET) & SUPERSTRUCTURE REPLACEMENT, F-04-008, RIVER	$6,075,029	C P B
604032 70380	DUDLEY- BRIDGE REPLACEMENT, D-12-010, WEST DUDLEY ROAD OVER THE QUINEBAUG RIVER	$3,167,776	C P B
604729 70566	SHREWSBURY- WORCESTER- BRIDGE REHABILITATION, S-14-001=W-44-018, STATE ROUTE 9 (BELMONT STREET) OVER LAKE	$110,278,104	C P B
603003 71223	EAST BROOKFIELD- BRIDGE REPLACEMENT, E-02-002, SHORE ROAD OVER EAST BROOKFIELD RIVER	$1,252,559	C P B
604690 71230	WORCESTER- BRIDGE REHABILITATION, W-44-010, (STATE ROUTE 12) WEBSTER STREET OVER MIDDLE RIVER	$2,848,023	C P B
603793 71227	HOPKINTON- SOUTHBOROUGH- BRIDGE REPLACEMENT, H-23-004=S-20-008, ROUTE 85 (RIVER STREET) OVER THE SUDBURY RIVER	$3,789,626	C P B
604409 71232	WORCESTER- STRUCTURAL REPAIRS & PAINTING ON I-290, INCLUDES W-44-108, W-44-107, W-44-106, W-44-105, W-44-104, W-44-103	$24,790,122	C P B
604161 72135	NORTHBRIDGE- BRIDGE REPLACEMENT, N-21-004, DOUGLAS ROAD OVER THE MUMFORD RIVER	$4,870,461	C P B
605338 72423	SOUTHBRIDGE- BRIDGE DEMOLITION & ROAD RELOCATION, S-21-014, SR 169 (NORTH WOODSTOCK ROAD) OVER THE P&W RAILROAD	$1,734,151	C P B
606711 75231	FRAMINGHAM- BRIDGE REPAIR, F-07-003 & F-07-065, WINTER STREET OVER SUDBURY RIVER	$724,950	C P
604841 75501	LITTLETON- BRIDGE REPLACEMENT, L-13-021, TAYLOR STREET OVER I-495 (NB & SB), L-13-022, I-495 (NB & SB) OVER ROUTE 2 & L-13-023, I-	$47,587,121	C P
605228	FRAMINGHAM- SUPERSTRUCTURE REPLACEMENT, F-07-001, ROUTE 9 (WORCESTER ROAD) OVER RESERVOIR OUTLET	$5,451,549	C P
606725	HOLDEN- BRIDGE REPLACEMENT, H-18-008, ROUTE 31 (WACHUSETT STREET) OVER THE QUINAPOXET RIVER	$3,566,861	C P
603710	FRAMINGHAM- BRIDGE REPLACEMENT, F-07-015, WINTER STREET OVER MBTA, AMTRAK & CSX RAILROAD	$11,373,202	C P B
605283	BROOKFIELD- BRIDGE REPLACEMENT, B-26-002, SR 148 (FISKDALE ROAD) OVER THE QUABOAG RIVER	$3,728,501	C P B
605942	BLACKSTONE- BRIDGE REHABILITATION, B-13-004, ROUTE 122 (MAIN STREET) OVER THE BLACKSTONE RIVER	$5,593,536	C P
604732	HUDSON- BRIDGE REPLACEMENT, H-25-003, STATE ROUTE 85 (WASHINGTON STREET) OVER THE ASSABET RIVER	$3,646,201	C P B
605964	MILLBURY- BRIDGE REPLACEMENT, M-22-020, ROUTE 146 (NB & SB) OVER WEST MAIN STREET & IMPROVEMENTS ON ROUTE 146 @ ELM	$22,448,993	C P

District 4

Project Number/ Contract	Project Description	Current Construction Budget	
605531 60259	EVERETT- MEDFORD- STRUCTURE MAINTENANCE, E-12-004=M-12-018, REVERE BEACH PARKWAY (ROUTE 16) OVER THE MALDEN RIVER	$2,824,219	C P B
604932 56216	QUINCY- BRIDGE PRESERVATION, Q-01-009, HANCOCK STREET OVER SAGAMORE STREET (PHASE I)	$837,110	C P B
605225 56588	DISTRICT 4- SCHEDULED & EMERGENCY STRUCTURAL REPAIRS (ESSEX COUNTY - CONTRACT #2)	$5,470,179	C P B
605224 56587	DISTRICT 4- SCHEDULED & EMERGENCY STRUCTURAL REPAIRS (MIDDLESEX COUNTY - CONTRACT #1)	$4,000,144	C P B
605226 56589	DISTRICT 4- SCHEDULED & EMERGENCY STRUCTURAL REPAIRS (NORFOLK & SUFFOLK COUNTIES - CONTRACT #3)	$8,078,719	C P B
604981 56859	PEABODY- BRIDGE BETTERMENT, P-03-023 (RAMPS A&B) & P-03-024 (RAMPS G&F), I-95 RAMPS OVER STATE ROUTE 128	$4,437,051	C P B
605363 56750	DISTRICT 4- SCHEDULED & EMERGENCY SUBSTRUCTURE REPAIRS ON I-93 CORRIDOR & VARIOUS LOCATIONS	$4,798,980	C P B
604749 57342	LAWRENCE- BRIDGE BETTERMENT, L-04-001, ROUTE 28 (BROADWAY) OVER THE MERRIMACK RIVER	$8,455,264	C P B



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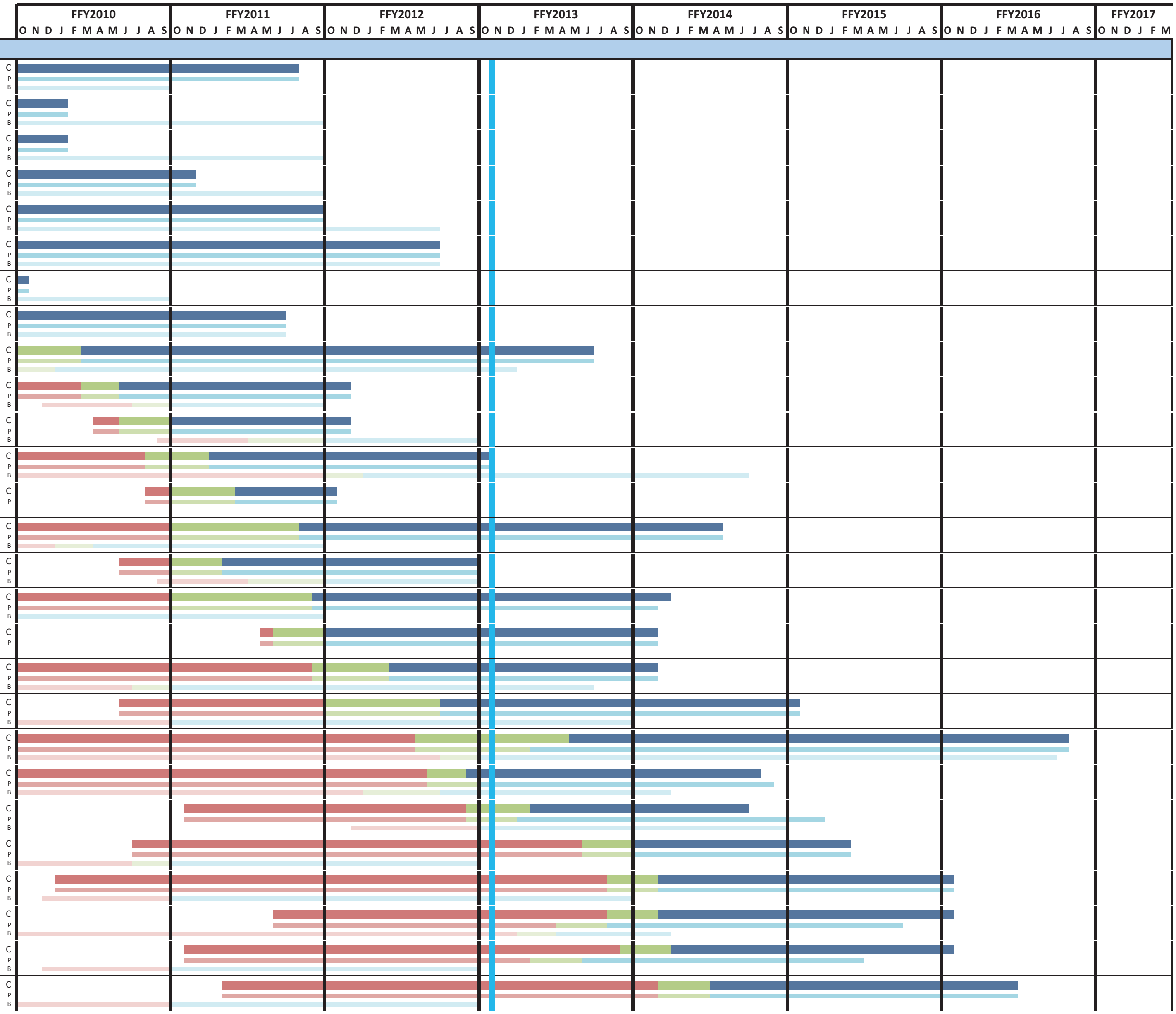
605209 57758	MILTON- BRIDGE BETTERMENT, M-25-028, PONKAPOAG TRAIL OVER I-93/US-1	$3,363,899
605359 57343	DISTRICT 4- SCHEDULED & EMERGENCY DECK AND JOINT REPAIRS (ESSEX & MIDDLESEX COUNTIES)	$6,877,156
605360 57344	DISTRICT 4- SCHEDULED & EMERGENCY DECK AND JOINT REPAIRS (NORFOLK & SUFFOLK COUNTIES)	$5,930,400
603244 57641	RANDOLPH- BRIDGE REPLACEMENT, R-01-012, MDC ACCESS ROAD OVER ROUTE 24 (NB & SB)	$3,939,517
068611 58439	LOWELL- BRIDGE REHABILITATIONS ON ROUTE I-495, L-15-082, CONCORD RIVER, L-15-083, B&M RR & L-15-084, WOBURN STREET	$36,872,000
604827 58185	LOWELL- BRIDGE BETTERMENT, L-15-059, L-15-060 & L-15-061, (HUNTS FALLS & ROTARY BRIDGES) SR110 & SR38 OVER THE	$12,143,545
605514 60267	DOVER- SUBSTRUCTURE REPAIRS, D-10-007, CHENEY BRIDGE OVER CHARLES RIVER	$594,659
605097 58658	NEWBURYPORT- SALISBURY- BRIDGE PRESERVATION (PAINTING), N-11-011=S-02-003, ROUTE 1 OVER MERRIMACK RIVER	$3,267,950
602543 61463	IPSWICH- BRIDGE REPLACEMENT, I-01-007, ROUTE 1A (HIGH STREET) OVER THE MBTA & B&M RAILROAD	$9,811,877
605490 60559	DISTRICT 4- SCHEDULED & EMERGENCY REPAIRS (ABP-PR12)	$2,108,883
605483 64848	HAVERHILL- DECK REPLACEMENT, H-12-057, WARD HILL CONNECTOR OVER FERRY ROAD & RAILROAD (ABP-PR25)	$2,968,649
603725 66461	LOWELL- BRIDGE REPLACEMENT, L-15-072, LOWELL CONNECTOR (EB & WB) OVER PLAIN STREET	$8,112,719
606255 67599	MEDFORD- BRIDGE REPLACEMENT ON I-93 CORRIDOR	$92,599,057
605515 68165	LYNN- REVERE- ELECTRICAL/MECHANICAL REPLACEMENT AND STRUCTURAL REPAIRS ON L-18-015=R-05-08, ROUTE 1A OVER THE	$9,973,668
605485 67060	DISTRICT 4- INTERSTATE STRUCTURAL REPAIRS (ABP-PR26)	$3,563,581
605520 68187	ARLINGTON- SOMERVILLE- BRIDGE REHABILITATION, A-10-014=S-17-026 (4DI), MYSTIC VALLEY PARKWAY OVER ALEWIFE BROOK	$3,136,283
606444 69158	DISTRICT 4- SCHEDULED & EMERGENCY BRIDGE ELEMENT REPAIRS AT VARIOUS LOCATIONS	$2,522,810
061301 70720	HAVERHILL- WEST NEWBURY- BRIDGE REHABILITATION, H-12-020=W-20-004, MAIN STREET OVER THE MERRIMACK RIVER (ROCKS	$14,072,433
605519 71229	SOMERVILLE- DECK & SUBSTRUCTURE REPAIRS, S-17-039, ROUTE 28 OVER WASHINGTON STREET (MCCARTHY OVERPASS)	$14,177,606
601096 73274	AMESBURY- NEWBURYPORT- SALISBURY- BRIDGE REPLACEMENT ON ROUTE I-95, A-07-016=N-11-007, OVER MERRIMACK RIVER	$244,826,400
602219 73931	SOMERVILLE- BRIDGE REHABILITATION, S-17-005, CROSS STREET OVER THE B&M RAILROAD	$4,840,582
605508 75236	REVERE- SUPERSTRUCTURE REPLACEMENT & SUBSTRUCTURE REPAIRS, R-05-016, REVERE BEACH PARKWAY OVER BLUE LINE AND	$5,993,516
604716	MEDFORD- BRIDGE REHABILITATION, M-12-002, MAIN STREET (STATE ROUTE 38 S) OVER MYSTIC RIVER (AKA - CRADOCK BRIDGE)	$12,788,740
604660	EVERETT- MEDFORD- BRIDGE REPLACEMENTS, REVERE BEACH PARKWAY (ROUTE 16), E-12-004=M-12-018 OVER THE MALDEN	$74,031,782
603531	PEABODY- BRIDGE REPLACEMENT, P-03-013, HOWLEY STREET OVER NORTH RIVER	$1,688,506
605528	REVERE- BRIDGE REPLACEMENT, R-05-001, REVERE BEACH PARKWAY OVER MBTA (WINTHROP AVENUE)	$10,851,395
604645	SOMERVILLE- BRIDGE REPLACEMENT, S-17-025, ROUTE 28 (McGRATH HIGHWAY) OVER GILMAN STREET (AKA - GILMAN STREET	$9,265,588



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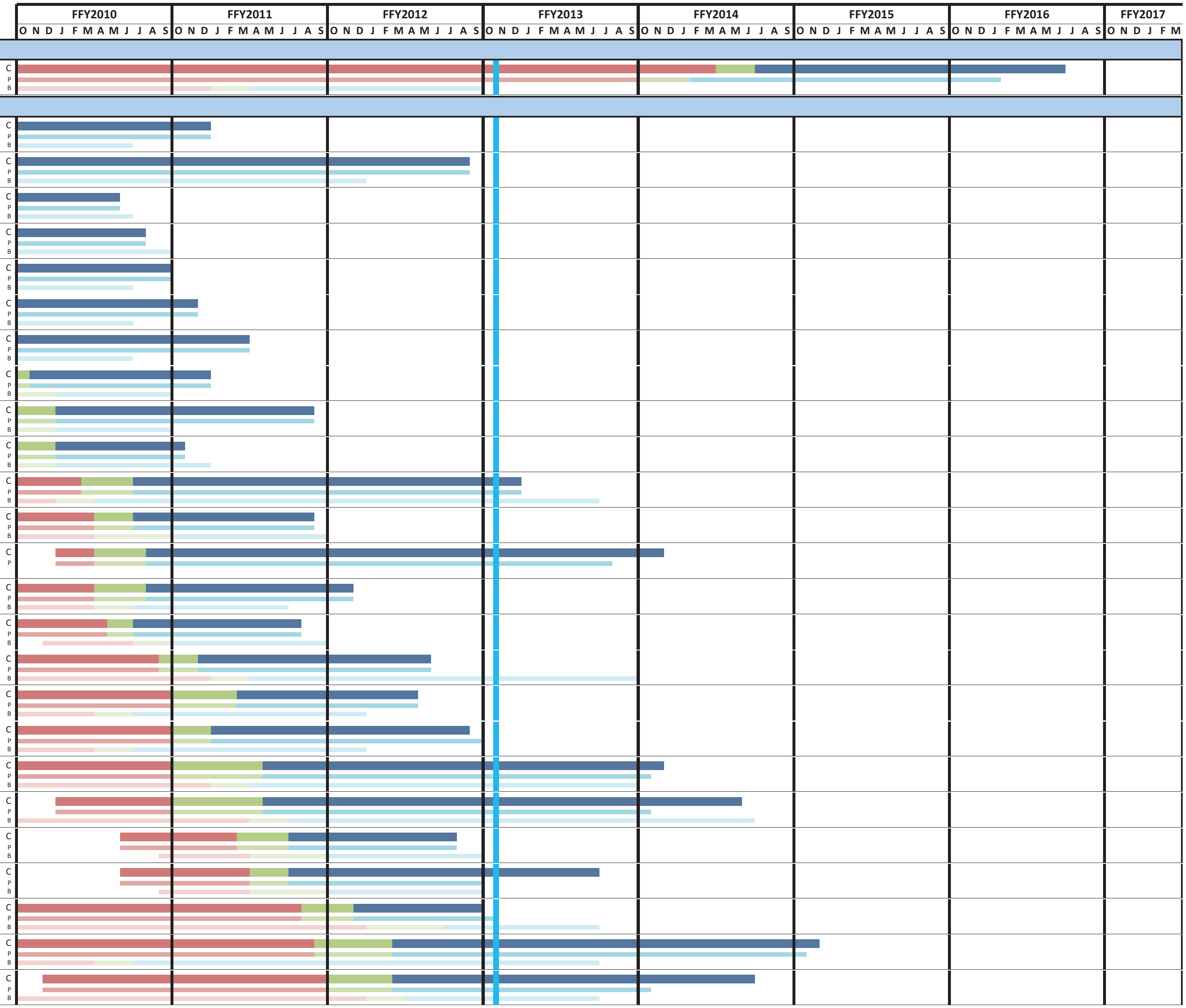
District 4		
601986	ANDOVER- BRIDGE REPLACEMENT, A-09-011, STATE ROUTE 28 (NORTH MAIN STREET) OVER MBTA RR	$3,606,787
District 5		
604747 56580	BROCKTON- BRIDGE BETTERMENT, B-25-048, ROUTE 123 (BELMONT STREET) OVER ROUTE 24	$4,006,179
601447 56415	FALL RIVER- SOMERSET- BRIDGE PAINTING, F-02-058=S-16-008, ROUTE I-195 OVER THE TAUNTON RIVER (BRAGA BRIDGE - PHASE I)	$16,257,405
604703 56387	FALL RIVER- BRIDGE BETTERMENT, F-02-041, HIGHLAND AVENUE OVER ROUTE 24 (SB)	$1,805,650
604704 56482	MIDDLEBOROUGH- RAYNHAM- BRIDGE BETTERMENT, M-18-041=R-02-017, I-495 (NB) OVER THE TAUNTON RIVER	$1,864,297
603595 56836	ATTLEBORO- BRIDGE PRESERVATION, A-16-042, I-95 (NB & SB) OVER WASHINGTON ST (US 1); BR# A-16-043, I-95 NB & SB OVER	$3,739,294
605133 57227	DISTRICT 5- EMERGENCY & NON-ROUTINE STEEL BEAM REPAIRS AT VARIOUS LOCATIONS	$2,351,349
605361 57636	DISTRICT 5- SCHEDULED & EMERGENCY REPAIRS TO SUBSTRUCTURES AT VARIOUS LOCATIONS ON ROUTE 24 CORRIDOR	$2,800,243
601393 59675	BROCKTON- BRIDGE REPLACEMENT, B-25-060 (AVA), BARTLETT STREET OVER SALISBURY BROOK	$1,080,522
603417 60198	NORWOOD- BRIDGE REPLACEMENT, N-25-003, MORSE STREET OVER THE NEPONSET RIVER	$1,078,178
604483 60310	HANOVER- HANSON- BRIDGE REPLACEMENT, H-06-003=H-07-003, BROADWAY OVER INDIAN HEAD RIVER	$1,625,881
605099 63039	FALL RIVER- SOMERSET- BRIDGE PRESERVATION, F-02-058, I-195 OVER THE COMB SR 79 & TAUNTON RIVER (BRAGA BRIDGE)	$12,483,020
605493 63317	DISTRICT 5- INTERSTATE DECK REPAIRS (ABP-PR13)	$1,799,356
605795 63320	FALL RIVER- SCHEDULED & EMERGENCY DECK & STEEL REPAIRS ON ROUTE 79 VIADUCT & I-195 RAMPS	$10,000,000
604419 63793	BROCKTON- BRIDGE REPLACEMENT, B-25-032, WHITE AVENUE OVER SALISBURY BROOK	$1,149,534
605495 63700	DISTRICT 5- INTERSTATE SUBSTRUCTURE REPAIRS (ABP-PR14)	$1,787,461
605272 66755	BARNSTABLE- BRIDGE PRESERVATION, B-01-019, ROUTE 6 OVER IYANQUGH ROAD (ROUTE 132)	$2,727,494
604415 67528	BRIDGEWATER- MIDDLEBOROUGH- BRIDGE REPLACEMENT, B-23-005=M-18-002, SUMMER STREET OVER THE TAUNTON RIVER	$2,326,124
603983 67215	ATTLEBORO- BRIDGE REHABILITATION, A-16-018, NORTH MAIN STREET OVER BUNGAY RIVER	$1,920,661
054400 68145	ATTLEBORO- BRIDGE REPLACEMENT, A-16-025, OLIVE STREET OVER MBTA/AMTRAK	$8,732,982
604329 68152	FAIRHAVEN- NEW BEDFORD- BRIDGE PRESERVATION, F-01-002=N-06-001 (EAST & WEST BRIDGES) ROUTE 6 OVER ACUSHNET RIVER & N-	$21,206,568
605494 68171	DISTRICT 5- INTERSTATE DECK REPAIRS AT VARIOUS LOCATIONS (ABP-PR28)	$1,845,177
605496 68299	DISTRICT 5- INTERSTATE SUBSTRUCTURE REPAIRS AT VARIOUS LOCATIONS (ABP-PR29)	$2,645,879
603252 70213	TAUNTON- SUPERSTRUCTURE REPLACEMENT, T-01-051, HOLLOWAY STREET OVER ROUTE 140 (NB) INCLUDES RAILING & CURB	$2,671,041
603670 70562	BOURNE- WAREHAM- BRIDGE REPLACEMENT, B-17-017=W-06-012, US ROUTE 6 & STATE ROUTE 28 (CRANBERRY HIGHWAY) OVER	$13,832,920
024090 71092	KINGSTON- BRIDGE REPLACEMENT, K-01-002, ELM STREET OVER THE JONES RIVER	$2,347,387



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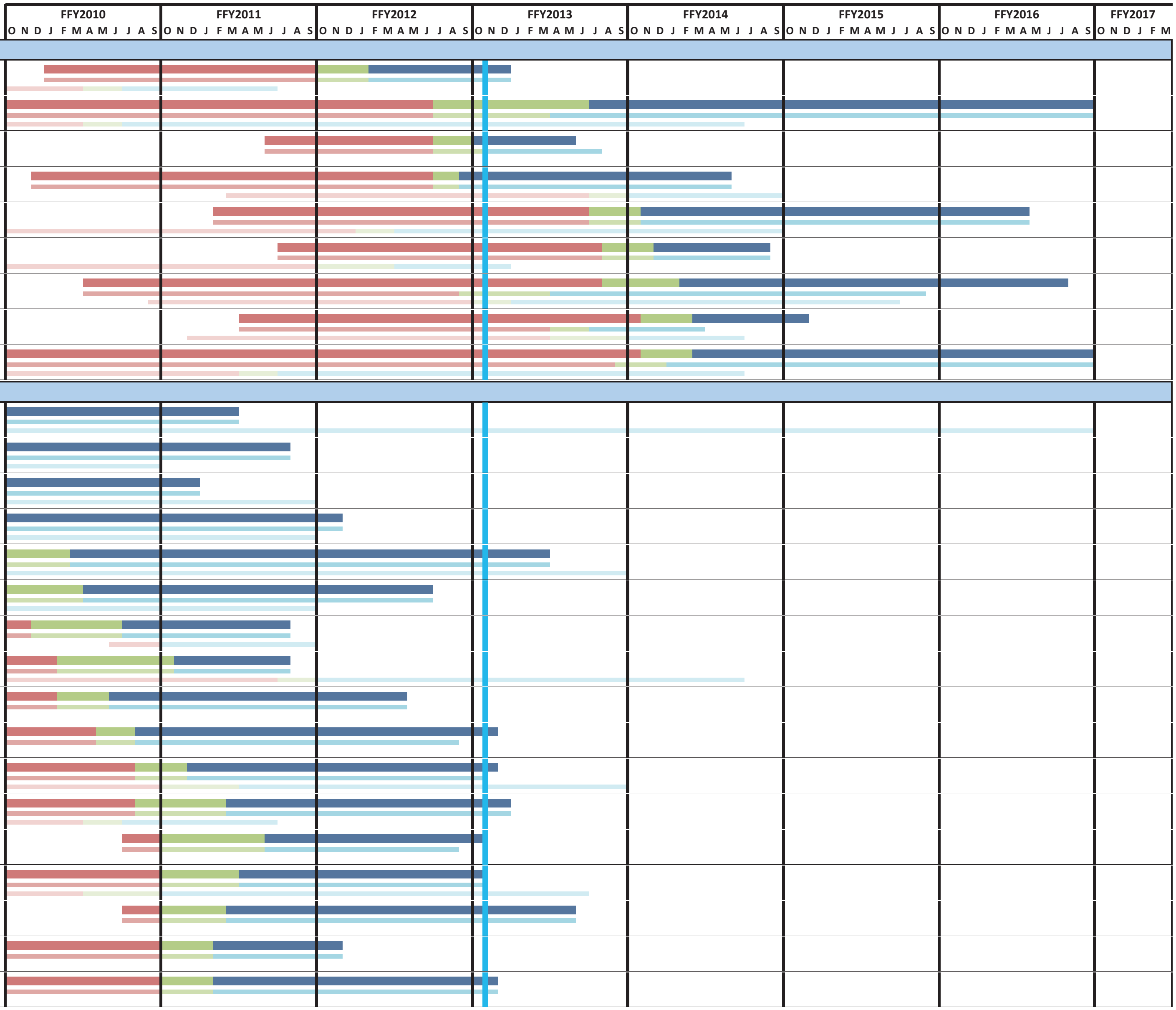
District 5			
603576 71225	TAUNTON- BRIDGE REPLACEMENT, T-01-021, BAY STREET OVER THE MILL RIVER & REPLACEMENT OF DAM MA00923	$5,063,529	C P B
605223 2 73768	FALL RIVER- INTERCHANGE IMPROVEMENTS AT ROUTE I-195/ROUTE 79/ROUTE 138	$152,289,500	C P B
606139 73899	FAIRHAVEN- BRIDGE SUPERSTRUCTURE REPLACEMENT, F-01-014, I-195 OVER RIVER AVENUE	$4,987,721	C P
605291 73891	DENNIS- BRIDGE REPLACEMENTS, D-07-001 & D-07-006, UPPER COUNTY ROAD & MAIN STREET (SR 28) OVER SWAN POND RIVER	$10,457,230	C P B
605327	RAYNHAM- TAUNTON- BRIDGE REPLACEMENT, R-02-012=T-01-049 (3MR), SR 24 OVER THE TAUNTON RIVER	$12,636,903	C P B
605344	TAUNTON- BRIDGE REPLACEMENT, T-01-015, WASHINGTON STREET (SR 140) OVER THE MILL RIVER	$4,465,361	C P B
605343	SWANSEA- SUPERSTRUCTURE REPLACEMENT OF BRIDGE, S-35-018, I-195 (EB/WB) OVER THE COLE RIVER	$17,445,734	C P B
605351	WEST BRIDGEWATER- BRIDGE REPLACEMENT, W-18-012, ROUTE 106 (WEST CENTER STREET) OVER THE HOCKOMOCK RIVER	$1,175,025	C P B
603690	CHATHAM- BRIDGE REPLACEMENT, C-07-001, BRIDGE STREET OVER THE MITCHELL RIVER	$12,313,814	C P B
District 6			
605532 60266	DCR- BRIDGE PRESERVATION AT VARIOUS LOCATIONS	$14,477,466	C P B
604685 60262	BOSTON- CAMBRIDGE- DAM BRIDGE REHABILITATION, B-16-013=C-01-019, CHARLES RIVER DAM ROAD (STATE ROUTE 28) OVER THE	$35,430,969	C P B
604683 60261	BOSTON- BRIDGE RECONSTRUCTION, B-16-196, MORRISSEY BOULEVARD OVER MOUNT VERNON STREET (AKA - LECH WALESA	$6,171,484	C P B
605506 60258	BOSTON-CAMBRIDGE: DECK REPLACEMENT, B-16-007=C-01-004, ROUTE 2 OVER SOLDIERS FIELD ROAD & CHARLES RIVER (BU BRIDGE)	$20,597,346	C P B
605521 61371	BOSTON- FULL DECK REPLACEMENT, B-16-390, ROUTE 3A (MORRISSEY BOULEVARD) OVER NEPONSET RIVER (NEPONSET RIVER	$38,772,185	C P B
605518 61941	CAMBRIDGE- BRIDGE REPLACEMENT, C-01-041, MAGAZINE BEACH PEDESTRIAN BRIDGE OVER ROUTE 3 (MEMORIAL DRIVE)	$4,609,257	C P B
605526 63701	NEWTON- WELLESLEY- BRIDGE REHABILITATION (PED), N-12-086=W-13-026, LOWER FALLS AT CONCORD STREET OVER CHARLES RIVER (P-	$499,201	C P B
604007 65281	WELLESLEY- BRIDGE REPLACEMENT, W-13-015, CEDAR STREET OVER ROUTE 9 WORCESTER STREET	$3,753,017	C P B
604421 63232	BOSTON- CAMBRIDGE- BRIDGE REHABILITATION, B-16-009=C-01-002, CAMBRIDGE STREET OVER THE CHARLES RIVER (MEMORIAL &	$19,876,400	C P
605938 63978	QUINCY- BRIDGE REHABILITATION, Q-01-009, HANCOCK STREET OVER SAGAMORE STREET (PHASE II)	$4,583,967	C P
603713 66090	DOVER- NEEDHAM- BRIDGE REPLACEMENT, D-10-004=N-04-007, WILLOW STREET OVER CHARLES RIVER	$3,410,751	C P B
600776 66336	WELLESLEY- BRIDGE REPLACEMENT, W-13-007, ROCKLAND STREET OVER CONRAIL	$1,899,174	C P B
606186 67814	BRAINTREE- RANDOLPH- CLEAN, PAINT AND STRUCTURAL REPAIRS TO TWO STEEL BRIDGES: MIDDLE STREET OVER CSX (B-21-030) &	$1,594,441	C P
603443 67664	BOSTON- BRIDGE REPLACEMENT, B-16-167, RIVER STREET OVER MBTA	$7,928,740	C P B
605170 67530	NEWTON- WESTON- BRIDGE BETTERMENT, N-12-058=W-29-012, ROUTE 128 SERVICE ROAD OVER CHARLES RIVER	$5,228,626	C P
605548 67020	DISTRICT 6- SCHEDULED & EMERGENCY STRUCTURAL, DECK & BRIDGE JOINT REPAIRS ABP	$680,241	C P
605547 67021	DISTRICT 6- SCHEDULED & EMERGENCY REPAIRS TO BRIDGE SUBSTRUCTURES - ABP	$842,825	C P



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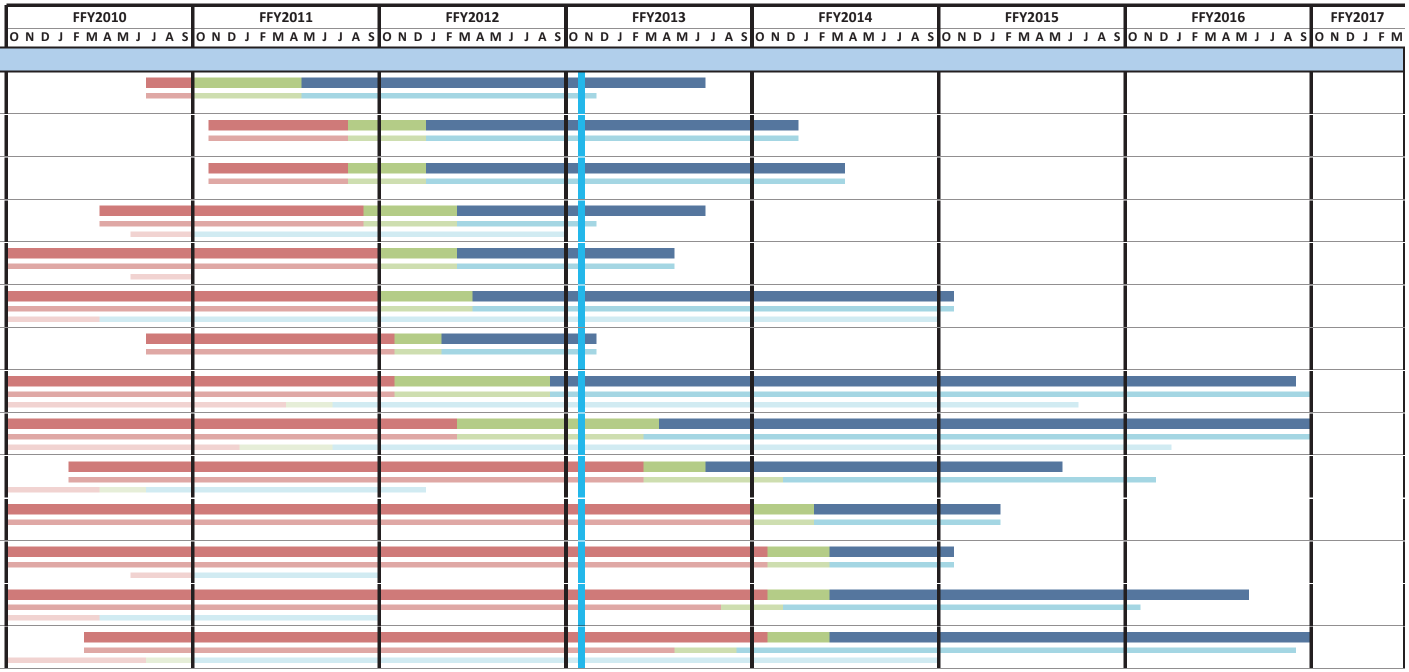
District 6			
606188 67813	BOSTON- SUBSTRUCTURE REPAIR TO B 16-458 (LEVERETT CIRCLE UNDERPASS)	$2,374,155	C P
606361 69787	DISTRICT 6- SCHEDULED & EMERGENCY BRIDGE DECK AND JOINT REPAIRS	$1,918,041	C P
606362 70215	DISTRICT 6- SCHEDULED & EMERGENCY STRUCTURAL & SUBSTRUCTURE REPAIRS AT VARIOUS LOCATIONS	$3,709,612	C P
605516 70723	BOSTON- BRIDGE REHABILITATION, B 16-381, HUGH FARREN PEDESTRIAN BRIDGE OVER OLD COLONY AVENUE	$1,794,587	C P B
605513 70937	NEWTON- WESTON- BRIDGE REHABILITATION, N-12-080=W-29 064, RIVERSIDE PARK PEDESTRIAN BRIDGE OVER CHARLES RIVER	$1,104,418	C P B
605517 70935	BOSTON- CAMBRIDGE BRIDGE REHABILITATION OF ANDERSON MEMORIAL BRIDGE, B-16-011=C 01-007, NORTH HARVARD STREET	$25,536,864	C P B
606187 71534	BRAINTREE- MILTON- CLEANING & PAINTING OF 3 BRIDGES: M-25-019 (3FA), M-25-020 (3F9), B 21-029 (357) & JOINT REPAIRS ON B 21	$2,852,456	C P
604382 71680	QUINCY- WEYMOUTH- BRIDGE REPLACEMENT, Q-01-001=W-32-001, STATE ROUTE 3A (WASHINGTON STREET) OVER THE FORE RIVER	$272,117,937	C P B
604361 1 72699	BOSTON- CAMBRIDGE BRIDGE REHABILITATION, B-16-009=C 01-002, CAMBRIDGE STREET OVER THE CHARLES RIVER (MEMORIAL	$281,810,092	C P B
603654	BOSTON- BRIDGE REPLACEMENT, B-16-163, MORTON STREET OVER THE MBTA & CSX RAILROAD	$10,342,362	C P B
605550	DCR- BRIDGE PRESERVATION AT VARIOUS LOCATIONS	$32,891,220	C P
605512	NEWTON- WESTON- BRIDGE REPLACEMENT, N-12-078=W-29-062, AUBURNDALE PEDESTRIAN BRIDGE OVER CHARLES RIVER	$2,005,861	C P B
605527	BOSTON- CAMBRIDGE BRIDGE REHABILITATION, B-16-006=C 01-005, CAMBRIDGE ST/CHARLES RIV (RIVER ST BRIDGE) & B-16-377,	$48,465,500	C P B
605511	BOSTON- BRIDGE REPLACEMENT, B-16-367, CASEY OVERPASS OVER WASHINGTON STREET	$53,000,000	C P B



Notes:

1. Longfellow Bridge - A schedule exposure exists, relating to the number of MBTA Redline diversions required, to completing this project within the Program timeframe. This exposure is being mitigated through requests for Alternative Technical Concepts (ATCs) from the Design/Build entities and use of Incentive/Disincentive clauses in the proposed Design/Build contract.

2. Fall River I-95/Route 79 Interchange - A schedule exposure exists to completing this project within the Program timeframe. A more detailed assessment of the duration is underway with the intent to evaluate mitigation measures required to complete the project within the Program timeframe ending in September 2016.

3. West Brookfield - Project terminated due to constructability issues and scope transferred to Project 605461 (CSX #3 Design/Build Bundle).

🟥 **DESIGN** 🟩 **PROCUREMENT** 🟦 **CONSTRUCTION**

C P B **C = Current Schedule; P = Previous Quarter;**
B = December 2008 Chapter 233 Section 19

▌ **Data Date = Nov-1-2012**

Project List Changes

ABP Program Project List Changes

Projects Added to ABP Program after Chapter 233 §19 Project List submitted

Project Number	Project Description	Pre-MassDOT Agency	District	City/Town	Project Type	Current Construction Budget	Remarks
603646	WORTHINGTON- BRIDGE REPLACEMENT, W-45-006, ROUTE 112 OVER KEARNEY BROOK	MHD	1	WORTHINGTON	REPLACEMENT	$1,096,576	Added to ABP Program in a District 1 project swap due to their lower bridge health index.
604048	EASTHAMPTON- BRIDGE REPLACEMENT, E-05-006, ROUTE 10 (NORTHAMPTON STREET) OVER MANHAN RIVER	MHD	2	EASTHAMPTON	REPLACEMENT	$4,122,008	Added to ABP Program in a District 2 project swap with Ware Bridge W-05-004 due to its lower bridge health index.
604421	BOSTON- CAMBRIDGE- BRIDGE REHABILITATION, B-16-009=C-01-002, CAMBRIDGE STREET OVER THE CHARLES RIVER (MEMORIAL & STORROW DRIVE) (AKA - LONGFELLOW BRIDGE) *EARLY ACTION - PHASE 1*	DCR	6	BOSTON-CAMBRIDGE	REHABILITATION	$19,876,400	Project Added to ABP Program - Phase I of the Longfellow Rehabilitation.
604516	SHEFFIELD- BRIDGE REPLACEMENT, S-10-023, STATE ROUTE 7A (ASHLEY FALLS ROAD) OVER THE HOUSATONIC RAILROAD	MHD	1	SHEFFIELD	REPLACEMENT	$3,873,694	Added to ABP Program in a District 1 project swap due to their lower bridge health index.
604669	WEST STOCKBRIDGE- BRIDGE REPLACEMENT, W-22-004, ROUTE 41 (GREAT BARRINGTON ROAD) OVER WILLIAMS RIVER	MHD	1	WEST STOCKBRIDGE	REPLACEMENT	$2,571,426	Added to ABP Program in a District 1 project swap due to their lower bridge health index.
604841	LITTLETON- BRIDGE REPLACEMENT, L-13-021, TAYLOR STREET OVER I-495 (NB & SB), L-13-022, I-495 (NB & SB) OVER ROUTE 2 & L-13-023, I-495 (NB & SB) OVER RAILROAD BRIDGE	MDOT	3	LITTLETON	REPLACEMENT	$47,587,121	Project was transferred into the ABP from the Statewide Road & Bridge Program in order to expedite delivery.
605170	NEWTON- WESTON- BRIDGE BETTERMENT, N-12-058=W-29-012, ROUTE 128 SERVICE ROAD OVER CHARLES RIVER	MDOT	6	NEWTON-WESTON	BETTERMENT	$5,228,626	Reallocation of original DCR $100M Project 605532.
605228	FRAMINGHAM- SUPERSTRUCTURE REPLACEMENT, F-07-001, ROUTE 9 (WORCESTER ROAD) OVER RESERVOIR OUTLET	MHD	3	FRAMINGHAM	RECONSTRUCTION	$5,451,549	Added to ABP Program in a District 3 project swap due to their lower bridge health index.
605337	SOUTHBOROUGH- BRIDGE PRESERVATON, S-20-018, I-495 (NB/SB) OVER HULTMAN AQUEDUCT & RAILROAD	MHD	3	SOUTHBOROUGH	PRESERVATION	$4,734,903	Added to ABP Program in a District 3 project swap due to their lower bridge health index.
605439	BECKET- CHESTER- BRIDGE REPLACEMENTS, B-03-008, B-03-010, B-03-011, B-03-037 & C-11-033 (US ROUTE 20), JACOB'S LADDER ROAD OVER WALKER BROOK & US ROUTE 20 OVER CUSHMAN BROOK & WALKER BROOK	MHD	1	BECKET-CHESTER	REPLACEMENT	$4,579,379	Added to ABP Program in a District 1 project swap due to their lower bridge health index.
605547	DISTRICT 6- SCHEDULED & EMERGENCY REPAIRS TO BRIDGE SUBSTRUCTURES - ABP	DCR	6	DISTRICT 6	MAINTENANCE	$842,825	Break-out of original DCR $100M Project 605532, reconfigured to District 6 Substructure Repairs
605548	DISTRICT 6- SCHEDULED & EMERGENCY STRUCTURAL, DECK & BRIDGE JOINT REPAIRS - ABP	DCR	6	DISTRICT 6	MAINTENANCE	$680,241	Break-out of original DCR $100M Project 605532, reconfigured to District 6 Scheduled & Emergency Deck & Joint Repairs
605550	DCR- BRIDGE PRESERVATION AT VARIOUS LOCATIONS	DCR	6	DISTRICT 6	PRESERVATION	$32,891,220	Break-out of original DCR $100M Project 605532.
605795	FALL RIVER- SCHEDULED & EMERGENCY DECK & STEEL REPAIRS ON ROUTE 79 VIADUCT & I-195 RAMPS	MHD	5	FALL RIVER	MAINTENANCE	$10,000,000	Added to ABP Program to facilitate emergency repairs to maintain safety of the structures until decisions are made on the scope of the Fall River Mega-Project (605223).

605938	QUINCY- BRIDGE REHABILITATION, Q-01-009, HANCOCK STREET OVER SAGAMORE STREET (PHASE II)	MHD	6	QUINCY	REHABILITATION	$4,583,967	Added to ABP Program as *Phase II* repairs to Bridge Q-01-009 as during construction work under ABP Project 604932 it was revealed that the remaining box beams were deteriorated in 3 of the 4 spans.
605942	BLACKSTONE- BRIDGE REHABILITATION, B-13-004, ROUTE 122 (MAIN STREET) OVER THE BLACKSTONE RIVER	MHD	3	BLACKSTONE	REHABILITATION	$5,593,536	Added to ABP Program in a District 3 project swap due to their lower bridge health index.
605964	MILLBURY- BRIDGE REPLACEMENT, M-22-020, ROUTE 146 (NB & SB) OVER WEST MAIN STREET & IMPROVEMENTS ON ROUTE 146 @ ELM STREET, ELMWOOD STREET & WEST MAIN STREET (ROTARY)	MHD	3	MILLBURY	REPLACEMENT	$22,448,993	Added to ABP Program in a District 3 project swap due to their lower bridge health index.
605976	WEBSTER- BRIDGE PRESERVATION, W-12-023, W-12-024, W-12-025 & W-12-026, ALONG I-395	MDOT	3	WEBSTER	PRESERVATION	$3,646,360	Added to the ABP Program at the request of District 3 as it is a major arterial with significant structural deterioration.
606139	FAIRHAVEN- BRIDGE SUPERSTRUCTURE REPLACEMENT, F-01-014, I-195 OVER RIVER AVENUE	MDOT	5	FAIRHAVEN	REHABILITATION	$4,987,721	Added to the ABP Program at the request of District 5 as it is a major arterial with significant structural deterioration.
606186	BRAINTREE- RANDOLPH- CLEAN, PAINT AND STRUCTURAL REPAIRS TO TWO STEEL BRIDGES: MIDDLE STREET OVER CSX (B-21-030) & NORTH MAIN STREET OVER BIKE PATH (R-01-001)	MDOT	6	BRAINTREE-RANDOLPH	REHABILITATION	$1,594,441	Reallocation of original DCR $100M Project 605532.
606187	BRAINTREE- MILTON- CLEANING & PAINTING OF 3 BRIDGES: M-25-019 (3FA), M-25-020 (3F9), B-21-029 (357) & JOINT REPAIRS ON B-21-029 (34A)	MDOT	6	BRAINTREE-MILTON	PRESERVATION	$2,852,456	Reallocation of original DCR $100M Project 605532.
606188	BOSTON- SUBSTRUCTURE REPAIR TO B-16-458 (LEVERETT CIRCLE UNDERPASS)	MDOT	6	BOSTON	PRESERVATION	$2,374,155	Reallocation of original DCR $100M Project 605532.
606255	MEDFORD- BRIDGE REPLACEMENT ON I-93 CORRIDOR	MDOT	4	MEDFORD	REHABILITATION	$92,599,057	Added to the ABP Program to expedite repairs of structures along this major arterial to avoid additional disruption like that which occurred in August 2010.
606263	DISTRICT 3- TREE TRIMMING & SITE DISTANCE CLEARING FOR UTILITY RELOCATIONS	MDOT	3	DISTRICT 3	OTHER	$157,050	Added to facilitate/accelerate Utility Relocation in advance of construction contract work
606361	DISTRICT 6- SCHEDULED & EMERGENCY BRIDGE DECK AND JOINT REPAIRS	MDOT	6	DISTRICT 6	MAINTENANCE	$1,918,041	Break-out of original DCR $100M Project 605532, reconfigured to District 6 Deck & Joint Repairs
606362	DISTRICT 6- SCHEDULED & EMERGENCY STRUCTURAL & SUBSTRUCTURE REPAIRS AT VARIOUS LOCATIONS	MDOT	6	DISTRICT 6	MAINTENANCE	$3,709,612	Break-out of original DCR $100M Project 605532, reconfigured to District 6 Structural & Substructure Repairs
606418	DISTRICT 1- BRIDGE REPAIRS AT VARIOUS LOCATIONS	MDOT	1	DISTRICT 1	MAINTENANCE	$880,247	Added to Program to provide funds for necessary bridge preservation work throughout District 1
606444	DISTRICT 4- SCHEDULED & EMERGENCY BRIDGE ELEMENT REPAIRS AT VARIOUS LOCATIONS	MDOT	4	DISTRICT 4	MAINTENANCE	$2,522,810	Break-out of original DCR $100M Project 605532, transfer of funds from District 6 preservation to District 4 preservation due to maintance agreement along border of Districts in Somerville.
606711	FRAMINGHAM- BRIDGE REPAIR, F-07-003 & F-07-065, WINTER STREET OVER SUDBURY RIVER	MDOT	3	FRAMINGHAM	PRESERVATION	$724,950	Added as re-scope of Project 602464 which was de-activated
606725	HOLDEN- BRIDGE REPLACEMENT, H-18-008, ROUTE 31 (WACHUSETT STREET) OVER THE QUINAPOXET RIVER	MDOT	3	HOLDEN	REPLACEMENT	$3,566,861	Added to Program on 2/16/2012 as Re-Design of Project 603591
DCRI	ABP INTER-AGENCY SERVICE AGREEMENT BETWEEN MASSDOT AND DCR	MDOT	7	MULTIPLE		$0	Added to ABP as part of MassDOT transition MOU

Projects Removed from ABP Program after Chapter 233 §19 Project List submitted

Project Number	Project Description	Pre-MassDOT Agency	District	City/Town	Project Type	Chapter 233 §19 Preliminary Estimate	Remarks
602464	FRAMINGHAM- BRIDGE REPAIR, F-07-003 & F-07-065, WINTER STREET OVER SUDBURY RIVER	MHD	3	FRAMINGHAM	REPLACEMENT	$5,551,577	Project de-activated and re-scoped as Project 606711
603492	CLINTON- BRIDGE REPLACEMENT, C-16-002, WATER STREET OVER THE NASHUA RIVER	MHD	3	CLINTON	REPLACEMENT	$4,186,898	Project transferred from ABP to ARRA.
603513	GARDNER- SUPERSTRUCTURE REPLACEMENT, G-01-008, PLEASANT STREET OVER THE B&M RAILROAD	MHD	3	GARDNER	RECONSTRUCTION	$2,967,178	Project dropped from ABP Program in lieu of more pressing District 3 bridge repairs/replacements.
603591	HOLDEN- BRIDGE REPLACEMENT, H-18-008, ROUTE 31 (WACHUSETT STREET) OVER THE QUINAPOXET RIVER	MHD	3	HOLDEN	REPLACEMENT	$4,949,738	Replaced by Project #606725 on 2/16/2012 due to scope re-design.
603892	COMBINED WITH PROJECT #605291	MHD	5	DENNIS	REPLACEMENT	$2,079,000	Scope bundled into Project 605291
604212	WARE- BRIDGE REPLACEMENT, W-05-004, ROUTE 9 (EAST STREET) OVER THE WARE RIVER	MHD	2	WARE	REPLACEMENT	$1,872,612	Project dropped from ABP Program in lieu of more pressing District 2 bridge repairs/replacements
604675	HOLDEN- BRIDGE REHABILITATION, H-18-020, RIVER STREET OVER QUINAPOXET RIVER	MHD	3	HOLDEN	REHABILITATION	$2,397,400	Project dropped from ABP Program in lieu of more pressing District 3 bridge repairs/replacements.
605087	DOUGLAS- BRIDGE PRESERVATION, D-09-003, MECHANIC STREET OVER MUMFORD RIVER	MHD	3	DOUGLAS	PRESERVATION	$1,217,160	Project dropped from ABP Program in lieu of more pressing District 3 bridge repairs/replacements
605088	COMBINED WITH PROJECT #604046	MHD	3	FITCHBURG	BETTERMENT	$2,899,771	Project 605088 bundled into Project 604046 as of 1/26/2011
605098	FALL RIVER- BRIDGE BETTERMENT, F-02-045, ROUTE 24 (NB & SB) OVER BEDFORD STREET	MHD	5	FALL RIVER	BETTERMENT	$5,687,555	Project transferred from ABP to ARRA.
605326	PITTSFIELD- BRIDGE REPLACEMENT, P-10-032, P-10-033, P-10-052 & P-10-065, US 20 OVER THE WESTERN BRANCH OF THE HOUSATONIC RIVER	MHD	1	PITTSFIELD	REHABILITATION	$7,775,750	Project dropped from ABP Program in lieu of more pressing District 1 bridge repairs/replacements.
605329	REHOBOTH- R-04-005, US 6 FALL RIV AVE OVER WATER PALMER RIVER	MHD	5	REHOBOTH	REHABILITATION	$2,073,046	Project dropped from ABP Program because bridge removed from SD List through Scheduled & Emergency Maintenance Contract.
605335	SOMERVILLE - BRIDGE BETTERMENT, S-17-035, I-93 (SB OFF-RAMP) OVER I-93 CONNECTORS	MHD	4	SOMERVILLE	PRESERVATION	$677,450	Project dropped from ABP Program because bridge removed from SD List through Scheduled & Emergency Maintenance Contract.
605482	COMBINED WITH PROJECT #605483	MHD	4	DISTRICT 4	MAINTENANCE	$1,800,000	Scope bundled into Project 605483
605484	COMBINED WITH PROJECT #605485	MHD	4	DISTRICT 4	MAINTENANCE	$1,800,000	Scope bundled into Project 605485
605510	COMBINED WITH PROJECT #604660	DCR	4	MEDFORD	REPLACEMENT	$8,830,000	Scope bundled into Project 604660
605522	COMBINED WITH PROJECT #604683	DCR	6	BOSTON	MAINTENANCE	$2,750,000	Scope bundled into Project 604683
605524	COMBINED WITH PROJECT #605527	DCR	6	BOSTON-CAMBRIDGE	MAINTENANCE	$15,930,000	Scope bundled into Project 605527
605530	COMBINED WITH PROJECT #604685	DCR	6	BOSTON-CAMBRIDGE	REHABILITATION	$43,870,000	Scope bundled into Project 604685

Glossary

Glossary of Acronyms

681 form	Funds Allocation Request
A+B	A+B Bidding
ABC	Accelerated Bridge Construction
ABP	Accelerated Bridge Program
ACOE	Army Corp of Engineers
ADT	Average Daily Traffic
ANRAD	Abbreviated Notice of Resource Area Delineation
CCCE	Current Construction Cost Estimate
CM/GC	Construction Manager/General Contractor
COA	Class of Action determination
ConCom	Conservation Commission
CTD (or CCTD)	Construction Contract Time Determination
DCR	Department of Conservation and Recreation
D-B (or DB or D/B)	Design-Build
D-B-B (or DBB)	Design-Bid-Build
DBE	Disadvantaged Business Enterprise
EA	Environmental Assessment
EIR	Environmental Impact Report (MEPA)
EIS	Environmental Impact Study or Statement (NEPA)
ENF	Environmental Notification Form
EWO	Extra Work Order
FA	Federal-Aid
FAPO	Federal Aid & Programming Office
FDR	Functional Design Report
FHWA	Federal Highway Administration
FFY	Federal Fiscal Year
FO	Functionally Obsolete
FONSI	Finding of No Significant Impact (FHWA)
FRP	Fiber Reinforced Polymer
ICE	Independent Cost Estimate
IMR	Interchange Modification Report
ISA	Interagency/Interdepartmental Service Agreement
LOI	Letter of Interest
MassDOT	Massachusetts Department of Transportation
MEPA	Massachusetts Environmental Policy Act
MMARS	Massachusetts Management Accounting & Reporting System
MWDBE	Minority and/or Woman-Owned Disadvantaged Business Enterprise
NEPA	National Environmental Policy Act
NEXT (Beam)	Northeast Extreme Tee Beam
NFA	Non Federal-Aid
NOI	Notice of Intent
PARM	Partners for Active Risk Management
PCU	Project Controls Unit
PGP	Programmatic General Permit
PS&E	Plans, Specifications, and Estimate
RC	Race Conscious
RFP	Request for Proposal
RFQ	Request for Qualifications
RN	Race Neutral
SD	Structurally Deficient
SHPO	State Historical Preservation Office
SFY	State Fiscal Year
SPMT	Self-Propelled Modular Transport
USGC	United States Coast Guard
VE	Value Engineering
VECP	Value Engineering Cost Proposal
WQC	Water Quality Certification

Glossary of Terms

Word, Term, Title, Expression, or Phrase	Definition/Description
681 Funds Allocation Document	Document used to request allocation of funds prior to award of a contract.
A+B Bidding	**A+B bidding** is a method of evaluating/awarding a project based on both cost and time. Each bid submitted consists of two parts: • The **"A" portion** of the bid is the sum bid for the contract work items. • The **"B" portion** of the bid is the time in calendar days proposed by the bidder to complete the project or a portion of the project, multiplied by a daily road user cost determined by the Department.
Abbreviated Notice of Resource Area Delineation	The **Abbreviated Notice of Resource Area Delineation,** WPA Form 4A, **(ANRAD)** serves two purposes under the **Wetland Protection Act.** First, the **ANRAD** provides a procedure for an applicant to confirm the delineation of a Bordering Vegetated Wetlands (BVW). If an **ANRAD** is filed for a BVW delineation, confirmation of other resource areas may also be requested provided the other resource area boundaries are identified on the plans which accompany the BVW boundary delineation. The second purpose of the **ANRAD** is to serve as the application for Simplified Review for projects in the Buffer Zone.
Accelerated Bridge Construction	**Accelerated bridge construction (ABC)** is the application of **accelerated construction** techniques to bridge construction that can reduce durations from years to days, and in some cases, hours. **ABC** includes the use of pre-cast**,** pre-engineered, and pre-fabricated components and **heavy-lift** equipment that permits rapid installation and shorter disruptions to people and commerce. Pre-fabricated components produced off-site can be assembled rapidly, and can reduce design time and cost, minimize forming, minimize lane closure time and/or possibly eliminate the need for a temporary bridge.
Accelerated Construction	**Accelerated construction** uses various techniques and technologies to help reduce construction duration while enhancing/maintaining safety and quality.
Aspirational Goal	Refers to an agency-wide or state-wide percentage goal of aggregate **MWDBE** procurement, which may be achieved through either race- and gender-conscious or race- and gender-neutral strategies.
Average Daily Traffic	**Average daily traffic** or **ADT** is the standard measurement for vehicle traffic load on a section of roadway.
Brake	A **brake** is a metalworking machine that allows the bending of sheet metal. A cornice brake only allows for simple bends and creases, while a box-and-pan brake also allows one to form box and pan shapes. It is also known as a bending machine or bending brake.
Best Practices	A **best practice** is a technique, method, process, activity, incentive, or reward that is believed to be more effective at delivering a particular outcome than any other technique, method, process, etc. when applied to a particular condition or circumstance.
Bridge Health Index	**Bridge health index** is the ratio of the current condition of each element to perfect condition expressed as a score from 0 to 100, with a value of zero indicating all of particular bridge's elements (deck, superstructure, substructure, culverts, structural condition, waterway adequacy, posting, scour critical bridges, functionally obsolete, and fracture critical) to be in the worst condition.
Bridge Health Ratings	*see* ***bridge health index***
Bridge-in-a-Backpack™	The **Bridge-in-a-Backpack™** is a lightweight, corrosion resistant system for short to medium span bridge construction using fiber-reinforced polymer composite arch tubes that act as reinforcement and formwork for cast-in-place concrete. The arches are easily transportable, rapidly deployable and do not require the heavy equipment or large crews needed to handle the weight of traditional construction materials. The tubes initially arrive in small folded packs, thus the **"bridge-in-a-backpack"** nickname.

Word, Term, Title, Expression, or Phrase	Definition/Description
Bridge Type Study	The **Bridge Type Study** is the process by which the most appropriate structure type for a given location is determined, and it is a compilation of the necessary economic, aesthetic, and site evaluations which lead to that selection. A well conceived **Bridge Type Study** will; provide hydraulic and geotechnical considerations; consider the structure types feasible for the site parameters or environmental commitments; provide the reasoning for eliminating or developing particular alternatives; and provide cost estimates for all alternatives considered and the rationale for the selection of the structure type chosen.
Bundle or Bundling	**Bundling** is a practice in which agencies consolidate two or more projects into a single prime construction contract.
Class of Action Determination	A **Class of Action determination** is required for all Federal actions and establishes the level of environmental documentation required to comply with the **NEPA** and the regulations of the **Council on Environmental Quality (CEQ)**. There are three **classes of actions** defined which prescribe the level of documentation required in the **NEPA** process: Class I: **Environmental Impact Statements (EISs) -** for actions that significantly affect the environment as defined by **CEQ** regulations. Class II: **Categorical Exclusions (CEs)** - for actions that do not individually or cumulatively have a significant environmental effect. Class III: **Environmental Assessments (EAs)** - for actions in which the significance of the environmental impact is not clearly established. All actions that are not **Class I EISs** or **Class II CEs** are **Class III**.
Conservation Commission	**Conservation Commissions,** or **Concoms,** are local environmental agencies that typically administer the Massachusetts **Wetland Protection Act** and the **Conservation Commission Act**.
Construction Manager/General Contractor (CMGC)	**Construction Manager/General Contractor (CM/GC)** is a modified Design-Build delivery method in which the owner holds the contract for both the design consultant and the contractor. This method allows selection of a contractor based upon qualifications prior to completion of the design, to work with the engineer and owner as a team to collaborate on design by providing constructability input.
Control Estimate	The **Control Estimate** is a Program level 'performance indicator' and budgetary tool, which is developed after the conceptual design and prior to bidding. The **Control Estimate** is ideally developed using the 75% design stage documents, which allows for ample design document maturity to develop a reasonable construction budget and, at the same time, is performed early enough to allow for design managers to provide cost recovery ideas, prior to bidding the work (if warranted by results of later more costly cost estimate projections).
Control Measures	Baseline units used to measure performance outcome, such as the **control schedule** and **control estimate** which are baseline units used to measure a projects cost and time performance.
Control Schedule	The **Control Schedule** is a Program level 'performance indicator,' which is developed after the conceptual design and prior to bidding. The **Control Schedule** is ideally developed using the 75% design stage documents, which allows for ample design document maturity to develop a reasonable construction schedule and, at the same time, is performed early enough to allow for ABP managers to implement corrective/recovery options, prior to bidding the work (if warranted by results of later Schedule assessment that shows a longer projection of construction duration).

Word, Term, Title, Expression, or Phrase	Definition/Description
Construction Contract Time Determination	A construction schedule assessment, utilizing the most recent contract documents, to provide MassDOT with a basis to determine a reasonable construction contract duration that the prospective bidders will be required to prepare their pricing. Ideally, the CTD (or CCTD) utilizes the significant production rates that are developed as part of a detailed construction cost estimate. This analysis is also used to assess the contractor's baseline schedule submission.
Current Construction Cost Estimate	The **Current Construction Cost Estimate** or **CCCE** reflects the most current estimate of construction costs, based on the most recent design documents or construction data. For projects where the construction contract has not yet been awarded, this estimate includes an allowance for incidentals that are specifically needed for the construction contract (i.e. police details, railroad related costs, independent inspections), an adjustment for inflation to account for the time period that the work will be installed, and contingency to account for potential/approved growth (controlled by MassDOT). If the construction contract has been awarded, this cost estimate excludes contingency, which is included in the contract budget. The **Current Construction Cost Estimate** does NOT include costs associated with design, Right-of-Way, force accounts, project oversight, or other program related costs.
Design-Bid-Build	**Design-Bid-Build** is a project delivery method in which the agency or owner contracts with separate entities for the design and the construction of a project. **Design-bid-build** is the traditional method for project delivery.
Design-Build	**Design-Build** is a method of project delivery in which the agency or owner executes a single contract with one entity for design and construction services. This system is used to minimize the project risk for an owner and to reduce the delivery schedule by overlapping the design phase and construction phase of a project.
Disadvantaged Business Enterprise	A for-profit small business concern that is at least 51 percent owned by one or more individuals who are both socially and economically disadvantaged or, in the case of a corporation, in which 51 percent of the stock is owned by one or more such individuals and whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who own it.
Environmental Assessment	An **Environmental Assessment (EA)** is an environmental analysis prepared pursuant to the **National Environmental Policy Act (NEPA)** to determine whether a federal action would significantly affect the environment and thus require a more detailed **Environmental Impact Study (EIS)**.
Federal-Aid	**Federal-Aid** describes highway funds that are authorized by Congress to assist the States in providing for construction, reconstruction, and improvement of highways and bridges on eligible **Federal-Aid** highway routes and for other special purpose programs and projects.
Federal-Aid Programming Office	The **Federal-Aid Programming Office (FAPO)** is responsible for coordinating and conducting the capital funding, budgeting and programming activities for all state and federal multi-year projects for the **MassDOT Highway Division**.
Federal Highway Administration	The **Federal Highway Administration (FHWA)** is a division of the **U.S. Department of Transportation (DOT)** that specializes in highway transportation.
Federal Fiscal Year (FFY)	The **Federal Fiscal Year** runs from October 1 of the prior year through September 30 of the next year.
Fiber Reinforced Polymer	**Fiber-reinforced polymer** (**FRP**) is composite material made of a polymer matrix reinforced with fibers. The fibers are usually fiberglass, carbon, or aramid, while the polymer is usually an epoxy, vinylester or polyester thermosetting plastic.

Word, Term, Title, Expression, or Phrase	Definition/Description
Folded Plate Girder	Folded plate bridge systems consist of a series of standard shapes that are built by bending flat plates into inverted tub sections (a **folded plate girder**) using a **brake**. The maximum span length for this system is currently limited to about 60 ft, reflecting the longest **brakes** that are available in the industry.
FONSI	A **FONSI (Finding of No Significant Impact)** is issued by FHWA when environmental analysis and interagency review during the **Environmental Assessment (EA)** process find a project to have no significant impacts on the quality of the environment. The FONSI document is the EA modified to reflect all applicable comments and responses. If it was not done in the EA, the FONSI must include the project sponsor's recommendation or selected alternative.
Functional Design Report	A **functional design report** (**FDR**) is a necessary component for all transportation and safety improvement projects submitted to MassDOT at the 25% design stage, including mitigation projects developed through the **Massachusetts Environmental Protection Act (MEPA)** process. Footprint bridge, roadway resurfacing, and maintenance projects are generally exempt from this requirement.
Functionally Obsolete	A bridge is **functionally obsolete** when it is inadequate to fulfill its current function, such as a four-lane road leading to a two-lane bridge.
Heavy Lift Installation	The use of specialized equipment and rigging methods to handle or place extraordinarily heavy or cumbersome preassembled structures or segments of structures for the purpose of expediting construction. Special equipment can include such items as: **self-propelled modular transporters (SPMTs)**, shore cranes, floating cranes, gantry cranes, ships, trucks, rail, barges, catamaran barges, hydraulic platforms, lift trucks, heavy lift helicopters or dirigibles.
Independent Cost Estimate	An **independent cost estimate (ICE)** is an estimate developed by one or more entities not associated with the subject program or project to serve as a tool for an independent cost analysis.
Interchange Modification Report	An **Interchange Modification Report (IMR)** is an operational analysis, prepared in accordance with both MassDOT and FHWA guidelines. The IMR addresses Interstate access point changes that are needed to improve operations and safety of an existing interchange.
Interagency Service Agreement	An **Interagency Service Agreement (ISA)** [a.k.a. **Interdepartmental Service Agreement**] is a contract between two Massachusetts Agencies or Departments where the buyer/parent Agency or Department provides funding for services rendered by the seller/child Agency or Department.
Mega-Project	An Accelerated Bridge Program term used to designate any project with a construction budget exceeding $100M.
NEXT Beam	**NEXT (Northeast EXtreme Tee)** is an efficiently designed double tee beam for medium span bridges that minimizes labor in both the manufacturing plant and at the job site. The elimination of deck forming in the field saves significant time during construction and also provides an instant platform for work, making for a much safer project. A 'NEXT-F' beam has a partial flange thickness that serves as the form for a final cast-in-place deck. The 'NEXT-D' beam comes with full flange thickness that acts as the final deck (riding surface).
Non Federal-Aid	**Non Federal-Aid** (**NFA**) is a Massachusetts term for funds for construction, reconstruction, and improvement projects on roads and bridges at the discretion of the state. The state share is 100 percent of the project costs. Also known as **non-Federal share, non-Federal match**

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Partners for Active Risk Management	**PARM** is a partnership of companies with expertise in risks analysis associated with construction of infrastructure. They have been contracted to help MassDOT allocate risk in order to minimize cost and schedule burdens. Partners are Geocomp, HDR, VHB, Faithful+Gould, Strategy Group (WBE), The Bhatti Group (MBE), Corcoran & Assoc.
Plans, Specifications, and Estimate	The engineering design process produces contract plans, specifications, and cost estimates (**PS&E**). These documents contain all the construction details, contract provisions, permits, agreements, and certifications required to advertise, award, and administer a construction contract.
Pre-cast Concrete	**Pre-cast concrete** is a structural element (such as a panel, beam or arch), that has been cast and fully cured before being transported to its site of installation. The opposite would be **cast-in-place concrete**.
Preliminary Estimate	The **Preliminary Estimate** is the estimated construction cost value that was included in the November 30, 2008 report to the Legislature pursuant to §19a of Chapter 233 of the Acts of 2008; used for early budgeting purposes only. This “baseline” estimate was established at the inception of the program before many projects were scoped. This estimate included allowances for incidentals for construction such as police details, adjustment for inflation, and reasonable contingencies to account for growth approved by MassHighway/DCR. The **Preliminary Estimate** did NOT include costs associated with design, Right-of-Way, force accounts, project oversight, or other program related costs.
Programmatic General Permit	A **Programmatic General Permit (PGP)** is a type of general permit that is issued to avoid unnecessary duplication of regulatory control exercised by another federal, state, or local agency. With a PGP, a permit applicant generally must only apply to one agency rather than applying to both agencies for permits for the same work.
Project Controls	**Project Controls** is an oversight function designed to continuously monitor the many facets related to budget and schedule including: program budget control, reporting, performance measurement, cost estimating, construction planning, project cost control, project schedule control, risk management, claims avoidance, recovery options, and change management.
Project Controls Unit	Chapter 233 of the Acts of 2008, Section 17, specifically requires the implementation of internal project controls, and that the Council create an internal project controls function to oversee all such work. A **Project Controls Unit (PCU)** has been established to collect, review, create, analyze, and report on data pertaining to project and program schedules, costs. The **PCU** is independent from the Program Manager, and without influence from planning, design, construction, operations, finance, or other organizations within the ABP. The **PCU’s** efforts are focused on objective and factual control and reporting of project and program status to provide transparency and public access to its status. Additionally, the PCU serves a secondary role to support, as an extension of staff, many of the project management functions. The majority of the PCU staff is also supporting construction operations in the various MassDOT District offices, primarily for schedule development, contractor reviews, and schedule training.
Race Conscious	An activity that is focused specifically on assisting only **DBEs**, including women-owned DBEs.
Race Neutral	An activity that is, or can be, used to assist all small businesses. Per 49 CFR Part 26, race-neutral includes gender-neutrality *(49 CFR Part 26 Definition)*
State Fiscal Year (SFY)	The **State Fiscal Year** for Massachusetts runs from July 1 of the prior year through June 30 of the next year.
Structurally Deficient	A **structurally deficient** bridge is one for which the deck (riding surface), the superstructure (supports immediately beneath the riding surface), or the substructure (foundation and supporting posts and piers) are rated in condition 4 or less on a scale of 1-10; a bridge that has experienced deterioration significant enough to potentially reduce its load-carrying capacity. **Structural deficiency** does not necessarily imply that a bridge is unsafe.

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Substantial Completion	Per M.G.L. Chapter 30 Section 39G “Shall mean either that the Work required by the Contract has been completed except for work having a price of less than one percent of the adjusted Contract Sum, or substantially all of the Work has been completed and opened to public use except for minor incomplete or unsatisfactory work items that do not materially impair the usefulness of the Work required by the Contract.”
Value Engineering	**Value Engineering (VE)** is the systematic application of recognized techniques by a multi-disciplined team to identify the function of a product or service, establish a worth for that function, generate alternatives through the use of creative thinking, and provide the needed functions to accomplish the original purpose of the project, reliably, and at the lowest life-cycle cost without sacrificing safety, necessary quality, and environmental attributes of the project.
Value Engineering Cost Proposal	**Value Engineering Cost Proposals (VECP)** are post-award **value engineering** proposals made by construction contractors during the course of construction under a **value engineering** clause in the contract. The **Federal-Aid** Policy Guide defines **VECPs** as "a construction contract provision which encourages the contractor to propose changes in the contract requirements which will accomplish the project's functional requirements at less cost, or improve value or service at no increase or a minor increase in cost. The net savings of each proposal is usually shared with the contractor at a stated reasonable rate."